

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

5 GGCAGAGCCT CAAGCTGACT TGGATTATGT GGTCCCTCAA ATCTACCGAC ACATGCAGGA 60
 GGAGGTTCCGG GGCCGGTTAG AGAGGACCAA ATCTCAGGGT CCCCTGACTG TGGCTGCTTA 120
 10 TCAKWYGGGG AGTGTCTACT CAGCTGCTAT GGTACACAGCC CTCACCCCTGT TGGCCTTCCC 180
 ACTTCTGCTG TTGCAATGCGG AGCGCATCAG CCTTGTGTC CTGCTCTGT TTCTGCAGAG 240
 CTTCCCTCTC CTACATCTGC TTGCTGCTGG GATACCCGTC ACCACCCCTG GTCCTTTAC 300
 15 TGTGCCATGG CAGGCAGTCT CGGCTTGGGC CCTCATGGCC ACACAGACCT TCTACTCCAC 360
 AGGCCACCAG CCTGTCTTTC CAGCCATCCA TTGGCATGCA CCCTTCGTGG GATTCCCAGA 420
 20 GGGTCAATGGC TCCTGTACTT GGCTGCCTGC TTTGCTAGTG GGAGCCAACA CCTTIGCCTC 480
 CCACCTCCTC TTTGCAGTAG GTTGCCTCACT GCTCCTGCTC TGGCCTTTCC TGTGTGAGAG 540
 TCAAGGGCTG CGGAAGAGAC AGCAGCCCCC AGGGAATGAA GCTGATGCCA GAGTCAGACC 600
 25 CGAGGAGGAA GAGGAGCCAC TGATGGAGAT GCGGCTCCGG GATGCGCCTC AGCACTCTA 660
 TGCAGCACTG CTGCAGCTGG GCCTCAAGTA CCTCTTTATC CTTGGTATTG AGATTCTGGC 720
 30 CTGTGCCTTG GCAGCCTCCA TCCTTCGCAG GCATCTCATG GTCTGGAAAG TGTTTGCCCC 780
 TAAGTTCAATA TTTGAGGCTG TGGGCTTCAT TGTGAGCAGC GTGGGACTTC TCCTGGGCAT 840
 AGCTTTGGTG ATGAGAGTGG ATGGTGCTGT GAGCTCCTGG TTCAGGCAGC TATTCTGGC 900
 35 CCAGCAGAGG TAGCCTAGTC TGTGATTACT GGCACTTGGC TACAGAGAGT GCTGGAGAAC 960
 AGTGTAGCCT GCCCTGTACA GGTACTGGAT GATCTGCAAG ACAGGCTCAG CCATACTCTT 1020
 40 ACTATCATGC AGCCAGGGGC CGCTGACATC TANGACTTCA TTATTCTWATR ATTCAAGGACC 1080
 ACAGTGGAGT ATGATCCCTA ACTCCTGATT TGGATGCATC TGAGGGACAA GGGGGKCGGT 1140
 STCCGAAGTG GAATAAAAATA GCGGGGCGTG GTGACTTGCA CCT 1183
 45

(2) INFORMATION FOR SEQ ID NO: 148:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 734 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 55 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

60 GAATTCCGCA GAGTGAACCA TTAGAATGAT TCCAAACACTG CTCTTCTGCA CCATGAGACC 60

	AACCCAGGGC AAGATCCCAT CCCATCACAT CAGCCTACCT CCCTCCTGGC TGCTGGCCAK	120
	GATGTCGCCA GCATTAACCTT CCACTGCCTT TCTCCCTGGG AAGCAGCACA GCTGAGACTG	180
5	GGCACCAGGC CACCTCTGTT GGGACCCACA GGAAAGAGTG TGGCAGCAAC TGCMTGGCTG	240
	ACCTTTCTAT CTTCTCTAGG CTCAGGTACT GCTCCTCCAT GCCCATGGYT GGGCCGTGGG	300
	GAGAAGAACG TCTCATAACGC CTTCCCACTC CCTCTGGTTT ATAGGACTTC ACTCCCTAGC	360
10	CAACAGGAGA GGAGGCCTCC TGGGGTTTCC CRRGGCAGT AGGTCAAACG ACCTCATCAC	420
	AGTCTTCCCTT CCTCTTCAAG CGTTTCATGT TGAACACAGC TCTCTCCRCT CCCTTGTGAT	480
15	TTCTGAGGGT CACCACTGCC ARCTCAGGC AACATAGAGA GCCTCCTGTT CTTTCTATGC	540
	TTGGTCTGAC TGAGCCTAAA GTTGAGAAAA TGGGTGCCAA GGCCAGTGCC AGTGTCTTGG	600
	GGCCCCTTTG GCTCTCCCTC ACTCTCTGAG GCTCCAGCTG GTCCTGGAC ATGCAGCCAG	660
20	GACTGTGAGT CTGGGCASGT CCAAGGCCTG CACCTTCAAG AACTGGAATA AATGTGGCCT	720
	TTGCTTCTAT TTAA	734

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(2) INFORMATION FOR SEQ ID NO: 149:

30 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1405 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

	GGCACAGTGG ACCCCAGACT CCCTCTCCGC CTTCCTCTGC CTGGGGAGAC CCACTGTGTG	60
40	CATGGCATCA CTGACTCCCA TACCTCTGGC TATCAAAGGT TTCTGCCATG GCCACCCCTGG	120
	AAGSAAACCA GAGGGAGGTA GACAGGGAGA TCAGGTCCT TCTACTCTGG TTCTGCTCT	180
	GTGAAATGTCTCAGGCTGG CTGTGTCCAG ARGGTCCCTG GTTCTCTCAR GGATGCCAAA	240
45	TCTACAAGAA TCTCTCCCT TCCAGTTCT ATAACCTCTC CTTCTTTTG TCTCTTTAGA	300
	CCTTGGAGTA GTAGCAGCCA GGTCTTTCT ATCTCTGGGT TAGTGCATTA TCTCTGGTGG	360
50	CTCCCTTACC CAGGACTTTG GGAATGGTCT TTTTGTAAATA CATTCTCCCTC AAATAATTCA	420
	ATTTTGAGTG TCTGTATGT ATCCTGCTGG GAGGTGTGTA TATACAAATC ACTGTGCCCG	480
	TTTAGCAGAG AAGGAGACTG AAGCTCAGGG AGGTTAAGTG TCTTCTCTA GGCGTATTG	540
55	TGGAGAAAGT GGCTGACTGG GGACTTGAAT GAGGTCCCTA GTTCTATGCT CGGAGGGCAA	600
	AGANGAATGT CCAATTGGCC TGAGATAAGC CTCTGGTAAA ATGTACTGTAA CATAATAGGT	660
60	AATCAATAAA TGTTGGCTGA TGACAAACAT GTTTCTTGT TTCATTAGTT ATAGTGTAA	720

5	TGTTCTAAAT AACTCCMACA AGGAARTCAG CACATTTGGA ATATCAWTAT CTTTCCATGA	780
	TAATATCTTT CCMYGGAAAG AWAATGATAT TCCMAACTGG GAGTGTCCW AGCARATCTG	840
	ANTCTGTGTA TTGGCCCTGG GGTGGGCCAG CCCCTTAGAC TCTATGGTCT CATTCTCTTT	900
	GTTTACAAAA TTGAGATAAG GCCTTATTCT CTCCCCACCC CACCCATCCA TATTGTTTG	960
10	AGAATAAAAT GAGAGGATGT GTGTCAAGGG TGTATTTGG CAATAGTCTC TGAGCCATT	1020
	TCTGAGCACC TCCATACTGT TGACACTCAA GTAATATTTC ATCAGCATTG CATTCAAGGNT	1080
	CCTCCCTTAA TGAGGTGTGC GATGTACAAG AGTYGTGAGG TGGCAAAGGA TGGGCTCCTG	1140
15	AGGAAACACT TAGGAAACTG GGCTTCTGC CATTAAAAGA GACAAACCTT TGTGGTGACC	1200
	TAATTAAAGT TTTTAAAATT CAATTGAA AGTTAGCAAG CTAGCTCCTK TCCAGGWAAA	1260
20	ATAAGGAGTC AGTGCATGAC CTAACCGGTC CCGGGCTGCT TGCCATTCCA ARCAACTGCA	1320
	GTAAGTTAT CACNTCTTT CAGGGACTGA GGTTCCAGG CACAGACTTG GATAAGGAAG	1380
	GATGTCCTAT GGGTCACAT TGATG	1405
25		

30 (2) INFORMATION FOR SEQ ID NO: 150:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 2890 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

40	TTATATGCTA CAGCTACAGT AAMTTCTCT CCAAGCACAG AGGANTTTC CCAGGATCAG	60
	GGGGATCGCG CGTCACCTGGA TGCTGCTGAC AGTGGTCGTG GGAGCTGGAC GTCATGCTCA	120
	AGTGGCTCCC ATGATAATAT ACAGACGATC CAGCACCAGA GAAGCTGGGA GCTCTTCCCA	180
45	TTCGGGCATA CTCACTTGA TTATTCAGGG GATCCTCCAG GTTTATGGC ATCAAGCAGC	240
	CATATGGACC AAATTATGTT TTCTGATCAT AGCACAAAGT ATAACAGGCA AAATCAAAGT	300
	AGAGAGAGCC TTGAACAAGC CCAGTCCGA GCAAGCTGGG CGTCTTCCAC AGGTTACTGG	360
50	GGAGAAAGACT CAGAAGGTGA CACAGGCACA ATAAAGCGGA GGGGTGGAAA GGATGTTTCC	420
	ATTGAAGCCG AAAGCAGTAG CCTAACGTCT GTGACTACGG AAGAAACCAA GCCTGTCCTC	480
55	ATGCCCTGCC ACATAGCTGT GGCACTCAAGT ACTACAAAGG GGCTCATTGC ACGAAAGGAG	540
	GGCAGGTATC GAGAGCCCCC GCCCACCCCT CCCGGCTACA TTGGAATTCC CATTACTGAC	600
	TTTCCAGAAG GGCACCTCCA TCCAGCCAGG AAACCGCCGG ACTACAACGT GGCCCTTCAG	660
60		

AGATCGCGGA	TGGTCGCACG	ATCCTCCGAC	ACAGCTGGC	CTTCATCCGT	ACAGCAGCCA	720	
CATGGGCATC	CCACCCAGCAG	CAGGCCTGTG	AACAAACCTC	AGTGGCATAA	AYCGAACGAG	780	
5	TCTGACCCGC	GCCTCGCCCC	YTATCAGTCC	CAAGGGTTTT	CCACCGAGGA	GGATGAAGAT	840
GAACAAGTTT	CTGCTGTTTG	AGGCACAGAC	TTTTCTGGAA	GCAGAGCGAG	CCACCTGAAA	900	
10	GGAGAGCACA	AGAAGACGTC	CTGAGCATTG	GAGCCTTGGA	ACTCACATTG	TGAGGACGGT	960
GGACCAGTTT	GCCTCCTTCC	CTGCCTTAAA	AGCAGCATGG	GGSTTCTTCT	CCCCTTCTTC	1020	
15	CTTTCCCCCTT	TGCATGTGAA	ATACTGTGAA	GAAATTGCC	TGGCACTTTT	CAGACTTTGT	1080
TGCTTGAAAT	GCACAGTGCA	GCAATCTTCG	AGCTCCACT	GTTGCTGCCT	CCACACATCAC	1140	
ACAGTATCAT	TCCAATTCC	AAGATCATCA	CAACAAGATG	ATTCACTCTG	GCTGCACTTC	1200	
20	TCAATGCCTG	GAAGGATTTT	TTTTAATCTT	CCTTTAGAT	TTCAATCCAG	TCCTAGCACT	1260
TGATCTCATT	GGGATAATGA	GAAAAGCTAG	CCATTGAACT	ACTTGGGGCC	TTTAACCCAC	1320	
25	CAAGGAAGAC	AAAGAAAAAC	AATGAAATCC	TTTGAGTACA	GTGCTTGTCC	ACTTGTTTAC	1380
AATGCTCTCC	TTTTAAAAAA	AAAAAAATGA	TTTAAAGAT	TTTGTTCAGA	GAGTAAATAT	1440	
ATATCCATTT	AATGATTACA	GTATTATTTT	AAACCTTAAG	TAGGGTTGCC	AGCCTGGTTT	1500	
30	CTGAAAAACC	AAATATGCCG	GACAGGGTGT	GGCCACACCA	AGAAGACGGG	AAGACCTGGC	1560
TTGTGACCCCT	GGCTTCCCAT	GTCTTCTGG	TCTCACCCGC	GAAGTGCCT	ATCCTGGAAAG	1620	
TATGAAATGT	TAGCCAATT	ATACCAAGAC	ACCTCATCTG	CTCCTTCCCC	AGTGGATGGG	1680	
35	GTTCTCTGT	AAAATGTTT	GCACATGGCC	AGGGGAGGGA	ACTAGGACCC	TTGTGTCCTG	1740
TCTGAGCCTT	ATGGAGGCAG	GACGGTGTCA	TTGGGGATG	TGTCTGCTC	CATTGAGATG	1800	
40	GATGGCAAAC	CCCATTTTA	AGTTATATT	CTTTGATTTT	TGTTAATTAA	GAGGTGTAGG	1860
TTTTGTTTTT	TGTTTTTTTG	TTTTTTTTTA	AGAGAAACAT	TTATAACTGG	ATAGCATTGC	1920	
AGTGAAGCA	GCTTGGGATG	TGGAGCTAA	TGCCAGCTGT	TTATACTGCT	CTTTCAAGAC	1980	
45	AGCCTCCCTT	TATTGAATTG	GCATTAGGGA	ATAAACAAAGC	CTTAAACGT	GATAAAAGAT	2040
CAAAACCTG	GTTAGACATG	CCAGCCTTG	CAAGGCAGGT	TAGTCACCAA	AGACTAACCT	2100	
50	CCAAGTGGCT	TTATGGACGC	TGCATATAGA	GAAGGCCTAA	GTGTAGCAAC	CATCTGCTCA	2160
CAGCTGCTAT	TAACCCCTATA	ATGACTGAAA	TGACCCCTCC	ACTCTATT	TGTGTTGT	2220	
TGCACAGACT	CCGGAAAAGT	GAAGGCTGCC	AATCTGAGTA	GTACTCAAAT	GTGAGGAAC	2280	
55	GCTGGTCTTG	GATTTTTTTT	CCATTAATT	CAGCTGATCA	TATTGATCAG	AGATAAACG	2340
TAAATAGCTT	CAAATTTAA	AAAGTGGAAATT	GCAGTGT	TTCACTGTAT	CAAACAATGT	2400	
60	CAGTGCTTTA	TTTAATAATT	CTCTTCTGTA	TCATGGCAATT	TGTCTACTTG	CTTATTACAT	2460

	TGTCAATTAT GCATTTGTA AATATGCATT ATTTGCCAGT TTTATTATAT	2520
	AGGCTATGGA CCTCATGTGC ATATAGAAAG ACAGAAATCT AGCTCTACCA CAAGTTGCAC	2580
5	AAATGTTATC TAAGCATTAA GTAATTGTA AACATAGGAC TGCTAATCTC AGTCGCTCT	2640
	GTGATGTCAA GTGCAGAATG TACAATTAAC TGGTGAATTC CTCATACTTT TGATACTACT	2700
10	TGTACCTGTA TGTCTTTAG AAAGACATTG GTGGAGTCTG TATCCCTTT GTATTTTAA	2760
	TACAATAATT GTACATATTG GTTATATTT TGTTGAAGAT GGTAGAAATG TACTATGTT	2820
	ATGCTTCTAC ATCCAGTTG TACAAGCTGG AAAATAAATA AATATAACAT AAAAAAAA	2880
15	AAAAAAAAAA	2890

20 (2) INFORMATION FOR SEQ ID NO: 151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2399 base pairs
- (B) TYPE: nucleic acid
- 25 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

30	GAACCTTTCC ATCTGGAAA CGGGAAACTC CATCCCCATT AAACCAACTC CCCCTTTGG	60
	TTTCCCCCCC AGNGGAATAG AATTGGACN CCCATATAAA TCCAGGAAAC CACCTAAATT	120
35	CTTTAGTNGT TTGTGTTGC AAGATCTAAG GTCTGGTAA ACATTAAGTT CTTAAAATT	180
	TTGGGAGGGA CCAGTGCACC TCTCCCTCTG AATTGTCNC CAATTAAAAA TTGGAGTAAG	240
	GTTTTAAAAT GTCTNATTCC ATTGGAAAGGG TNTGTTATT CATTITGAGC CCAGAGGGGA	300
40	GAGGCACATT TAAATATCA GAATTAGATT AGCTTGAGT TTGTACAATT GGGAACATAA	360
	TAGATTTCA TAAATTATGT GTGCCCTGTT GGAAGTGTCA ACTGTCTTTA TGTCTGCTTG	420
45	TAAAAGTTTC AAAATATGTT TTCCCTCAAA AAGGCAACGT TACTTCATT GCTTGAATAT	480
	TATGATAGGA ATGCTTACTG ATATTACTG ATAGTCATAT ATAGCCTAGG AAATTTAAC	540
	TATATATAAC TATAGCAGTA TTAATAATGA TAGTTGACT TCTTTAAAAC ATTTAATTG	600
50	AGGAAACTTT AATGCTGTCT CGTGTACATT GCTTTACTAC AGTGAGGGGG AATATCCTT	660
	AGATTGAGCC TCAATTACT GGTTAGTAGT ATGTGAACTC TGGTATAAAA ACGTAAACTA	720
55	GACAGTAGAG CCGATGAATT AAAATTGTA ATTGCTACAT TGGCATTTC TACCTCCTT	780
	TCTGTCAGAG TATTACTTT TCCAGCATT ATTCTTATT GTGAGTAAAG AGGAAATGGG	840
	AACCTGAGGT TAAAATTGAC ATTGTTGTT CATTGAGAAT TTAAGCAGTA GGTACAGGAG	900
60	AAAGTGACTTG TCACATTAAT TTGGTGCCTA AATCTGTAAC TACAAGTTGT GATCGACATG	960

	TACAAAATGT CTAAGAAAGG TCATATGCTG AATATTTAC TTTTCCTGTA TAGTCTGCAT	1020
5	GATTGTTTC ATAAACCCAG CTTATTTCT CCAAAAAGCA AAATGGCCT GTAAATTTTA AAGTAAAATA AACGTGCCAT TTTGTCTGCA ATCTATAATT TCACGAACTT ATTGRAAGTT	1080
	CTGACTCAGG GCTTTTAAC AGTTCAAGCA ATTGTCAAGTT ATATTTGGA AACTCCATCT	1140
10	GTGTAATTCT CCAGTGCCTT GAAAGAATTAA TTAACCTGGC AACACTATTAA AAACCTTATA AAAGATGGTC TTTAGTGCAC GTGTATCATT ATATACACGT TTTAAAGTCA TATTGCTTAG	1200
	CTTGTAAATA ATGATTCTGC ATGTGTGCTG GGTTTGGTA ATTCTTTAAA GGAAGTTTC TAGATTTGCA CTTGATGTTT GTTTTTAAA AACTGATTAT TTATGGCCGT GACACTGTTA	1260
15	CCAGAAAAGT AATTCTAATT AAGTTATTAT GCAAAGTCAT CTATAAGTAG CATCTGGAA	1320
	GAGGAGATSG AGGCCACAGT TTGCTATTTT AGTATGAAAG GAGGATCTGT TTGGGAAACA TAGATTGTCT TCCCCTCAAA TGAGGGAAA AAAAAAGACC CTTTGTCAA ATGGATTCTG	1380
	TTGAAAAAA TTATTTTAA AGGAAATCAC AAATTGTATG TCATTCTTAA TGCTAGTCTT ATAGAATAAA TCCATAAAAT TGTTTTATG TTCAGTATGT TTATGTCATT CTAAATGCAG	1440
20	CAAATTCAAT GATAGCAGTT CAATTGACTC ATAGCAGTGT TTGTATTTT TTCTAATTCT	1500
	TTAGCTTCA ATATTGGATT AAAGTCTGT TTGTGAATAT AGTTCCGTA TGGCAAATGA TTCTTGCTT ATTAGCTTTT GTTAAAGAAT GCTTAGTAAG AGCTAAGCTT TTAAAAGTAA	1560
	TGCAAACATT TATCGTTAAT AAAACCTATG GTGTAATATC ATATAATGCT TTTCTTGAT CTTTGGAGAA TTATTCTTT ATAGTAGTAT ACATGAATT TGATTTTAA AGCATTAAA	1620
25	AAACAAATCTC AATACATTAA AAAACCTGTT ATTGTAAAAA RGAAATTAC CATGCCTTTA	1680
	AGAAAACAAGG ATGTACATCT TCAATTCAAGC ATRAGTGTCC ACATCTAGAA GGCTCTCATT GCAGTTGTTT ACAGTTAAGG TACCTCTATC TAAAGGGCCA AAGAAGCATT TCATAYTTA	1740
	ACACCTCACA TTCTTTCAGG ATTAAGACAT ATGAAAATAG TCTGAATAGG ATAAATTG 45 ATAGGAAGTA ACTTAACCAG TCTGGGAAGA TTCAGGCTTT TTCTATKAAA AAGCTTATTC	1800
	CTCTTCACAA CTCNGGTGGT AGGNTTTCAT TTTCAAGAG GGTAGATATT TTAAAGCCA	1860
50		1920
	TGCAAACATT TATCGTTAAT AAAACCTATG GTGTAATATC ATATAATGCT TTTCTTGAT CTTTGGAGAA TTATTCTTT ATAGTAGTAT ACATGAATT TGATTTTAA AGCATTAAA	1980
	AAACAAATCTC AATACATTAA AAAACCTGTT ATTGTAAAAA RGAAATTAC CATGCCTTTA	2040
	AGAAAACAAGG ATGTACATCT TCAATTCAAGC ATRAGTGTCC ACATCTAGAA GGCTCTCATT GCAGTTGTTT ACAGTTAAGG TACCTCTATC TAAAGGGCCA AAGAAGCATT TCATAYTTA	2100
40	ACACCTCACA TTCTTTCAGG ATTAAGACAT ATGAAAATAG TCTGAATAGG ATAAATTG ATAGGAAGTA ACTTAACCAG TCTGGGAAGA TTCAGGCTTT TTCTATKAAA AAGCTTATTC	2160
	CTCTTCACAA CTCNGGTGGT AGGNTTTCAT TTTCAAGAG GGTAGATATT TTAAAGCCA	2220
		2280
45		2340
		2399

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(2) INFORMATION FOR SEQ ID NO: 152:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 802 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

	CGTGCCTGTA	GTAAGCTCAT	CCCTGCCTTT	GAGATGGTGA	TGCGTGCCAA	GGACAATGTT	60
5	TACCACTGG	ACTGCTTGC	ATGTCAGCTT	TGTAATCAGA	GATTNTGTGT	TGGAGACAAA	120
	TTTTCTAA	AGAATAACWT	GAYCCTTGC	CARACGGACT	ACGAGGAAGG	TTTAATGAAA	180
10	GAAGGTTATG	CACCCCMGGT	TCGCTGATCT	ATCAACATCA	CCCCATTAAG	AATACAAAGC	240
	ACTACATTCT	TTTATCTTTT	TTGCTCCACA	TGTACATAAG	AATTGACACA	GGAACCTACT	300
	GAATAGCGTA	GATATAGGAA	GGCAGGATGG	TTATATGGAA	AAAAAGGCGG	ACTGCATCTG	360
15	TATGTAGTGA	AATTGCCCA	GTTCAGAGTT	GAATGTTTAT	TATIAAGAA	AAAAGTAATG	420
	TACATATGGC	TGGATTTTTT	TGCTTGCTAT	TCGTTTTGT	GTCACTTGGC	ATGAGATGTT	480
20	TATTTGGAC	TATTGTATAT	AATGTATTGT	AATATTGAA	GCACAAATGT	AATACAGTTT	540
	TATTGTGTTA	CCATTTGTGT	TCCATTTGCT	YCTTTGTATT	GTTGCATTTA	GTACAATCAG	600
	TGTTAAACT	TACTGTATAT	TTATGCTTTC	TGTATTACC	AGCTATTITA	AATGAGCTGT	660
25	AACTTTCTAG	TAAAGAATTG	AAAAGCAAAT	CCTCACTAAA	GGATACACAG	GATAGGATAA	720
	AGCCAAGTCN	CATCAACATT	AAAAAAATACT	AAAANANAAA	ACACAAAAAA	AAAAAANCCC	780
	GGGGGGGGCC	CGGAACCCAT	TC				802
30							

(2) INFORMATION FOR SEQ ID NO: 153:

35	(i) SEQUENCE CHARACTERISTICS:						
	(A) LENGTH: 461 base pairs						
	(B) TYPE: nucleic acid						
	(C) STRANDEDNESS: double						
40	(D) TOPOLOGY: linear						

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

	CTAGGAGCAC	CGAGCAGCTT	GGCTAAAAGT	AAGGGTGTG	TGCTGATGGC	CCTGTGCGCA	60
45	CTGACCCGCG	CTCTGCNCTC	TCTGAACCTG	GCGCCCCCGA	CCGTCGCCGC	CCCTGCCCCG	120
	AGTCTGTTCC	CCGCCGCCCA	GATGATGAAC	AATGCCCTCC	TCCAACAGCC	CTCTGCCTTG	180
50	ATGTTGCTCC	CCTGCCGCC	AGTTCTTACT	TCTGTGGCCC	TTAATGCCAA	CTTTGTGTCC	240
	TGGAAGAGTC	GTACCAAGTA	CACCATTAACA	CCAGTGAAGA	TGAGGAAGTC	TGGGGGCCGA	300
	GACCACACAG	GTGGGAACAA	GGACAGGGGG	ATTTAAGCAG	TCAAAAGGAA	AAACATGTTA	360
55	AGACCCCTAGA	CTTGTATATT	GACACACTTG	TACCTTGTAA	GGCAGAGGAA	TGTAATTAAA	420
	AAGCACTTAT	TTGGCWNAAA	AAAAAAA	AAAAAAA	AAAAAAA	C	461

(2) INFORMATION FOR SEQ ID NO: 154:

5 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

GCCCACGCGT	CCGAAAGCGG	AGAACGCTGG	TGGGCCTGTT	GTGGAGTACG	CTTGGACTG	60	
15	AGAACCATCG	AGGCTATAGG	ACGCAGCTGT	TGCCATGACG	GCCCAGGGGG	GCTGGTGGCT	120
	AACCGAGGCC	GGCGCTTCAA	GTGGGCCATT	GAGCTAACCG	GGCCTGGAGG	AGGCAGCAGG	180
20	GGTGAAGTG	ACCGGGGCAG	TGGCCAGGGA	GACTCGCTCT	ACCCAGTCGG	TTACTTGGAC	240
	AAGCAAGTGC	CTGATACCAAG	CGTGCAAGAG	ACAGACCGGA	TCCTGGTGGA	GAAGCGCTGC	300
25	TGGGACATCG	CCTTGGGTCC	CCTCAAACAG	ATTCCCATGA	ATCTCTTCAT	CATGTACATG	360
	GCAGGCAATA	CTATCTCCAT	CTTCCCTACT	ATGATGGTGT	GTATGATGGC	CTGGCGACCC	420
30	ATTCAGGCAC	TTATGGCCAT	TTCAGCCACT	TTCAAGATGT	TAGAAAGTTC	AAGCCAGAAG	480
	TTTCTTCAGG	TTTTGGTCTA	TCTCATTGGG	AACCTGATGG	GTTTGGCATT	GGCTGTTAC	540
35	AAGTGCCAGT	CCATGGGACT	GTTACCTACA	CATGCATCGG	ATTGGTTAGC	CTTCATTGAG	600
	CCCCCTGAGA	GAATGGAGTT	CAGTGGTGGA	GGACTGCTTT	TGTGAACATG	AGAAAGCAGC	660
40	GCCTGGTCCC	TATGTATTG	GGTCTTATT	ACATCCTCT	TTAAGCCCAG	TGGCTCCTCA	720
	GCATACTCTT	AAACTAATCA	CTTATGTTAA	AAAGAACCAA	AAGACTCTTT	TCTCCATGGT	780
45	GGGGTGACAG	GTCCTAGAAG	GACAATGTGC	ATATTACGAC	AAACACAAAG	AAACTATACC	840
	ATAACCCAAG	GCTGAAAATA	ATGTAGAAAA	CTTTATTTT	GTTTCCAGTA	CAGAGCAAAA	900
50	CAACAACAAA	AAAACATAAC	TATGTAAACA	AGAGAATAAC	TGCTGCTAAA	TCAAGAACTG	960
	CTGTTGGGGA	TACCTGGGGG	AAGATGTGAG	AAACTAATGC	TGAATTCA	TTATACATGA	1020
55	TGAAAAGAAA	AACCAGACAA	AAGGAGCACCA	AAAATATGCA	TACAGTGTAA	CTGTTATTAT	1080
	TTTAATACCC	ACGATAAGGG	ATTTTTGTTA	GCATGTTAG	GGGAACGAG	GATTGGTGGG	1140
60	ATCCTTGGGG	CCACAGGAAT	CTGAGGCAAC	GGAAGATATA	TAGAGTGTAC	GTCCCCCTGC	1200
	CGAAGGAACC	TGGCAYCTGT	CAAGCAGATG	CTGCAGTTCA	AACTTCAGCT	TTTAAGATAG	1260
	ATAGCTATTG	AAGGCAGAGG	GTCAGCAGGA	GGATGTGTAT	TTCTAATCTA	CCCTGGTAAA	1320

	GTCATAGGTA AGACTCAAAA GCGGGATCTT ATTCAAAAGG CAGGTATTTC CTTTGTTC	1500
	TGCTTGAAA TAGCCCCCTTC CCCTAAGGTG CATTCTCTCA AGTTTTCAGT ATTGCTTTAT	1560
5	TTGCAGTGAT TAAAAGAGAT GAGAGACTTT GGAGACAGAC AACGTAAGCA ACACATACAC	1620
	ACATGAAATA CTCTAGACAG AGATGAATAT AAATCTGGCC TAATAACCAG TTTCCATGT	1680
10	AACAGTGATT TTGTGTTTCG GGCTGAAGCA GTGGTTATAT TAAAAGCCAC TAATTCCCTT	1740
	ATCCCTTAA AAGATTTTTA CAATTCTCCA ACCACAAACA GCACCTCTAA AACTAACTTT	1800
	ACTTCTGCC CATAATTGT TCTACATGGA AAAAAAAAAT ATTACTTGG CCAGGGTGT	1860
15	GTGTAATGT GCGAGAATTC CTAGGCAGGC TGACCTTAC AGTATGGCC TTTAAGATAC	1920
	TGGATCCTGG TTGGGCAACA AGTGTACCGC CTGAAGTTTC TGAAAACAAA TTAGAAGACT	1980
	GTGGCTTGG CTAATCTCGT AGTCAGGGC CAAGTTCTG TAGTCAGAAT GAAGAATAAA	2040
20	ATTGAAAGAA AAAGGGGAA ATGCTTATAC TTGGCATTAA GTTGAATGCC TCAAGTCTTA	2100
	ACTATGGCTT TGTAGATGAG GCAAAAGATT TCTTAGTGGT AAAATTCTT CAACAGGTCA	2160
25	ATGCCAATCT GTATGCCATT TTAGTAAAGT AGGTAAAGGAG AGTAGCCGCT CAGTAACCTT	2220
	GGCACTAAAG AAAGAGTGTG GCTCTAGAAC TTCCAATCCC ATTGCTAGAT GTGCCCTTTA	2280
	AAAGATGGTC CAGTGTTTC AGGGAAGGAT GTTTAGCCAG TTTCTCTAGT ATTGTTCCCT	2340
30	TAAGATTTT TGACCTGTGC TTAATAAGAC GGACCGGTGG GTCGACCC	2388

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(2) INFORMATION FOR SEQ ID NO: 155:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 642 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:	
45	AAAACAGACC ATTAAAAAAC TCAGACAAGA TTATATTAA TATATTAATT ACTAAAAGG	60
	CACAAGATTA CACTGAACAT ATTAGCTACT AAAAAGGCAC TGCTAAGACA TTCAAGCAA	120
50	TAGCTATTAC ACACACTGTC AGATTTACA GGTTCATAAT TCTAACATAT GTTGAAAAAA	180
	TCCGTGAGTA TTCCAAAATA TATTTAATAA TGGAATATCT GCATTAATAT ACCATCCATG	240
	TGTTTTTACC ATTGCTTA ATATTGAATA TACTGTTAC CTCACACTAA AAAGAAAACC	300
55	AGAACGCTTA TTTGTGATTG TGGGAGTGGA AGCTTCATT TTTGTGTCAA AAATGAATCC	360
	TGATTCTTAT GGAAATCTCT GTTATTAAGA TATTCAGA TGAGACAACA CTGAAGATCA	420
60	AATTGTGTTT AGTATCACTA TCTTCTCTCC TCGTTCTCT CTTACTCCTC ATCCTCCAG	480

AATCTACCAAG TTTATGGTAG AAAGATGGGA ACCTTATTG AATGTGTTT TTTTTTCCA	540
5 TGATGTCCAA TTTTGTGTG GGAAAGGAAIT TGGATAAAAT TTTTGTAA ATTTTGGTAG	600
ATTTTATCT ATACAAATTT AAATAAAATT ATGTTTGTA AG	642

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(2) INFORMATION FOR SEQ ID NO: 156:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

20 GCCGCTGCC CTCACGGAG TTGCTGATCA TCTGGCTGT GATCCACAAA CCCGGTTCTT	60
TGTCCCTCCT AATATCAAAC AGTGGATTGC CTTGCTGCAG AGGGAAACT GCACGTTAA	120
25 AGAGAAAATA TCACGGCCG CTTTCCACAA TGCAGTTGCT GTAGTCATCT ACAATAATAA	180
ATCCAAAGAG GAGCCAGTTA CCATGACTCA TCCAGGCACT GAGCATATTA TTGCTGTCAT	240
30 GATAACAGAA TTGAGGGGTAA AGGATATTTT GAGTTATCTG GAGAAAAACA TCTCTGTACA	300
AATGACAATA GCTGTTGGAA CTCGAATGCC ACCGAAGAAC TTCAGCCGTG GCTCTCTAGT	360
CTTCGTGTCA ATATCCTTTA TTGTTTTGAT GATTATTTCT TCAGCATGGC TCATATTCTA	420
35 CTTCATTCAAG AAGATCAGGT ACACAAATGC ACGCGACAGG AACCAGCGTC GTCTCGGAGA	480
TGCAGCCAAG AAAGCCATCA GTAAATTGAC AACCAGGACA GTAAAGAAGG GTGACAAGGA	540
40 AACTGACCCA GACTTTGATC ATTGTGCAGT CTGCATAGAG AGCTATAAGC AGAATGATGT	600
CGTCCGAATT CTCCCCTGCA AGCATGTTT CCACAAATCC TGCCTGGATC CCTGGCTTAG	660
TGAACATTGT ACCTGTCCTA TGTGCAAAC TAAATATATTG AAGGCCCTGG GAATTGTGCC	720
45 GAATTTGCCA TGTACTGATA ACGTAGCATT CGATATGGAA AGGCTCACCA GAACCCAAGC	780
TGTTAACCGA AGATCAGCCC TCGGCGACCT CGCCGGCGAC AACTCCCTTG GCCTTGAGCC	840
50 ACTTCGAACT TCGGGGATCT CACCTCTTCC TCAGGATGGG GAGCTCACTC CGAGAACAGG	900
AGAAATCAAC ATTGCAGTAA CAAAAGAATG GTTTATTATT GCCAGTTTG GCCTCCTCAG	960
TGCCCTCACA CTCTGCTACA TGATCATCAG AGCCACAGCT AGCTTGAATG CTAATGAGGT	1020
55 AGAATGGTTT TGAAGAAGAA AAAACCTGCT TTCTGACTGA TTTTGCCTTG AAGGAAAAAA	1080
GAACCTATTT TTGTCATCA TTTACCAATC ATGCCACACA AGCATTTATT TTTAGTACAT	1140
60 TTTATTTTTT CATAAAATTG CTAATGCCAA AGCTTGTAT TAAAAGAAAT AAATAATAAA	1200

ATAAAAAAA AAAAACCCCG GGGGGGGCCC GGTCCCCAAT TGGCCCTATG G 1251

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(2) INFORMATION FOR SEQ ID NO: 157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2127 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

15	CCGGCGGGAG AGGGAAGCTG CAGCGAGAGG CGCGGATCTC AGCGCGGGAG CAGTGCTTCT	60
	GCGGCAGGCC CCTGAGGGAG GGAGCTGTCA GCCAGGGAAA ACCGAGAACCA CCATCACCAT	120
20	GACAACCACT CACCAGCCTC AGGACAGATA CAAAGCTGTC TGGCTTATCT TCTTCATGCT	180
	GGGTCTGGGA ACGCTGCTCC CGTGGAAATT TTTCATGACG GCCACTCAGT ATTTCACAAA	240
25	CCGCCTGGAC ATGTCCCAGA ATGTGTCCCTT GGTCACTGCT GAACTGAGCA AGGACGCCA	300
	GGCGTCAGCG CNCCCTGCAG CACCCCTGCC TGAGCGGAAC TCTCTCAGTG CCATCTTCAA	360
	CAATGTCAATG ACCCTATGTG CCATGCTGCC CCTGCTGTAA TTCACTTACCC TCAACTCCTT	420
30	CCTGCATCAG AGGATCCCCC AGTCCGTACG GATCCTGGC AGCCTGGTGG CCATCCTGCT	480
	GGTGTCTG ATCACTGCCA TCCTGGTAA GGTGCAGCTG GATGCTCTGC CCTTCTTGT	540
	CATCACCAGT ATCAAGATCG TGCTCAATTAA TTCAATTGGT GCCATCCTGC AGGGCAGCCT	600
35	GTTGGTCTG GCTGGCTTC TGCCCTGCCAG CTRACACGGC CCCCATCATG AGTGGCCAGG	660
	GCCTAGCAGG CTTCTTGCC TCCGTGGCA TGATCTGCGC TATTGCCAGT GGCTCGGAGC	720
40	TATCAGAAAG TGCCCTCGGC TACTTTATCA CAGCCTGTGC TGTKATCATT TTGACCATCA	780
	TCTGTTACCT GGGCTGCC CCGCTGGAAT TCTACCGCTA CTACCAAGCAG CTCAAGCTTG	840
	AAGGACCCGG GGAGCAGGAG ACCAAGTTGG ACCTCATTAG CAAAGGAGAG GAGCCAAGAG	900
45	CAGGCAAAGA GGAATCTGGA GTTTCAGTCT CCAACTCTCA GCCCACCAAT GAAAGCCACT	960
	CTATCAAAGC CATCCTGAAA AATATCTCAG TCCTGGCTTT CTCTGCTGTG TTCACTTCA	1020
50	CTATCACCAT TGGGATGTT CCAGCCGTGA CTGTTGAGGT CAAGTCCAGC ATCGCAGGCA	1080
	GCAGCACCTG GGAACGTTAC TTCAATTCTG TGTCTGTTT CTGACTTTC AATATCTTIG	1140
	ACTGGTTGGG CCGGAGCCTC ACAGCTGTAT TCATGTGGCC TGGGAAGGAC AGCCGCTGGC	1200
55	TGCCAAGCTG GNTGCTGGCC CGGCTGGTGT TTGTGCCACT GCTGCTGCTG TGCAACATTA	1260
	AGCCCCGGCG CTACCTGACT GTGGTCTTCG AGCACGATGC CTGGTTCATC TTCTTCATGG	1320
60	CTGCCCTTGC CTTCTCCAAC GGCTACCTCG CCAGCCTCTG CATGTGCTTC GGGCCCAAGA	1380

	AAGTGAAGCC AGCTGAGGCA GAGACCGCAG AGCCATCATG GCCTTCTTCC TGTGTCTGGG	1440
5	TCTGGCACTG GGGGCTGTTT TCTCCTTCCT GTTCCGGCA ATTGTGTGAC AAAGGATGGA	1500
	CAGAAGGACT GCCTGCCTCC CTCCCTGTCT GCCTCCTGCC CCTTCCTTCT GCCAGGGTG	1560
	ATCCTGAGTG GTCTGGGGT TTTTTCTTCT AACTGACTTC TGCTTTCCAC GGCGTGTGCT	1620
10	GGGCCCCGAT CTCCAGGCCG TGGGGAGGGA GCCTCTGGAC GGACAGTGGG GACATTGTGG	1680
	GTTCGGGCT CAGAGTCGAG GGACGGGGTG TAGCCTCGGC ATTTCCTTGA GTTTCTCCAC	1740
15	TCTTGGCTCT GACTGATCCC TGCTTGTGCA GGCCAGTGGA GGCTCTTGGG CTTGGAGAAC	1800
	ACGTGTGTCT CTGTGTATGT GTCTGTGTGT CTGGTCCGT GTCTGTCAAGA CTGTCCTGCC	1860
	GTCCCTGGGT GGCTAGGAGC TGGGTCTGAC CGTTGTATGG TTTGACCTGA TATACTCCAT	1920
20	TCTCCCTGC GCCTCCTCCT CTGTGTCTC TCCATGTCCC CCTCCCAACT CCCCATGCC	1980
	AGTTCTTACC CATCATGCAC CCTGTACAGT TGCCACGTTA CTGCCTTTT TAAAAATATA	2040
25	TTTGACAGAA ACCAGGTGCC TTCAGAGGCT CTCTGATTAA AATAAACCTT TCTGTGTTT	2100
	TTCTCCATGG AAAAAAAA AAAAAAA	2127

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(2) INFORMATION FOR SEQ ID NO: 158:

(i) SEQUENCE CHARACTERISTICS:

35	(A) LENGTH: 1625 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

40	CAAAAGATCT ATAATCAGGA CATTGTTAT GTAAAGTGGAA CAANAAAAAT TCTTCCCTT	60
	TATGTCCACC CTTCTATGA TTGCAAGACA AAATTCCTT CCTTTACCTC ATCCCTATAA	120
45	CATGGGAGGC TGAGAAAAAT GAGGGGAGAT GGAACCAAGAT ACAAGGAGAT CCAATAAGAG	180
	AAGCTTATTT AAATATTGTG AAATAAAGGA AGAMCCAAAG CATTTCCTTA AGTGGGAAT	240
50	CCTTTGAAC AGTTATTATT TATCCATATT ATTAAYAACAA TCTTTCTGA CAAAATCCAT	300
	CAGATGAAGT GTAAATGGAT AATCTTTAA TGGATCTAAA CCTAGAAAGT TTCACTTACT	360
	GTTCATGTCC GTGTTCCAGA ATTGTGAAAT GGTGTGTGGT TTTGCTTTCC AAGTTCTTCT	420
55	CTGCCTCCTC TTAATTCTCT AATTCCATGT CTTACAGAAG AATGAGAAAT TTCTTTCTTA	480
	CTTGAGTATC ATGCTCTAAA AAACCTGGCT TCAGTCACAG AAACGCTGGC TCTCCTGTGC	540
60	TTATATTGAA GCCAACTGCC TTTAATTCTT GGGCCCTCTT ATATTTTTAA GGTGCAAAAT	600

	TTGAAGTCTC AGTCACCAGA CACAGGTTCT ATACAATTAA TGATGAGCTG GAGAAGTAAT	660
	ATGTAGCTAA TTTTCAAAA GCATTGAATA TACTTTCCGG AAAGAAAACA GAAATTAAAT	720
5	ATTGCCACAT CTTGCCAGAA TCCCACATCTGA CACCTTAACCT TTGTCAGGTT TCCTACAACT	780
	TGCTAATCAA GTTTTATACA TTCTAAATCT CCCCCAGTTTC TTTGGGGCTG GAAGATGCAA	840
10	CTTCCATTAA ATAGAAAACCTT TGAAATCTTG GGGTAAGGGA GCAGTGGGG GACTAGGGAG	900
	AAGGATAAGA AATAGAATTAA TTGAAAAGCC CCCACCCAGGG ACCTTCCTGG CCAGAATATG	960
	CAGAGTAATT CCTGCTGGCT TCACCTTTGA AAGTCCCTCG AACTATGCA GATGAAACTG	1020
15	AGTCTGTTTT TGATATTGTC AGATGTATTTC TACCTTGAA GTCCCNACAC CTAAACTGGA	1080
	ATTCTTGTAT TTACATCTCC TCCACTGTCC CCCACACCCAC CCCTCAATTTC CTGCTGCC	1140
	TGCTAATGTT AAGCATTTTT CTCTTGTAT CATCAGGTTAC ACATTTAAAM CAGRTACTTA	1200
20	CAAACTGACT TGAAGCACAG ATACTTTAC GAATGTGATA AAATATTTTC TTAAGAAAAG	1260
	GAAAGAGGAT GTGGGTCAAA TAAAACACCG CATGGATGTT GATTGGTGAA TACTGGTGTA	1320
25	AGAAAAGGGA GCTCAGGAAT TTTTATTACT GTATTTGTAA ATGAGTTTGAGGAATTGT	1380
	AAATGCCACT GGTACATTTT TAAGGTGACA CATTGCTCC TTATAAAGTT ATTAAAAATT	1440
	ACAGGGTAAG CTTAAATGAC GTTGGCCAGT AGTTTACTT TATATAATCA ATATTGATAT	1500
30	TGTTGCTGAA CTATGTAACCT TTATGATGCA TTTTTCAGTC CCTTTTCAGA GCAAATGCTT	1560
	TTGCAATGGT AGTAATGTTT AGTTAAATT GACTTAATAA ATTMTTACCT GAGCAAAAAA	1620
35	AAAAA	1625

40 (2) INFORMATION FOR SEQ ID NO: 159:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1687 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

50	CGGGGTCACC AGTTATTAGA GGAAGTAACA CAAGGGATA TGAGTGCAGC AGACACATT	60
	CTGTCGATC TGCCAAGGGA TGATATCTAT GTGTCAGATG TTGAGGACGA CGGTGATGAC	120
	ACATCTCTGG ATAGTGACCT GGATCCAGAG GAGCTGGCAG GAGTCAGGGG ACATCAGGGT	180
55	CTAAGGGACC AAAAGCGTAT GCGACTTACT GAAGTGCAAG ATGATAAAGA CGAGGAGGAG	240
	GAGGAGAATC CACTGCTGGT ACCACTGGAG GAAAAGGCAG TACTGCAGGA AGAACAAAGCC	300
60	AACCTGTGGT TCTCAAAGGG CAGCTTTGCT GGGNATCGAG GACGATGCCG ATGAAGGCC	360

5	TGGAGATCAG TCAGGCCAG CTGTTATTTG AGAACCGGYG GAAGGGACGG CAGCAGCAGC	420
	AGAACCGAGCA GCTGCCACAG ACACCCCCCTT CCTGTTGAA GACTGAGATA ATGTCTCCCC	480
10	TGTACCAAGA TGAAGCCCT AAGGNAACAG AGGCTTCTTC GGGGACAGAA CCTGCCACTG	540
	GCCTTGAAGG GGAAGAAAAG GATGGCATCT CAGACAGTGA TAGCAGTACT AGCAKTGAGG	600
15	AAGAAGAGAG CTGGGAACCC TCCGTGGTAA GAAGCGAASC GTGGGCCTAA AGTCAGATGA	660
	TGACGGTTT GAGATAGTGC CTATGAGGA CCCAGCGAAA CATCGGATAC TGGACCCCCGA	720
20	AGGCCTTGCT CTAGGTGCTG TTATTCGCTC TTCCAAAAAG GCCAAGAGAG ACCTCATAGA	780
	TAACTCCCTTC AACCGGTACA CATTAAATGA GGATGAGGGG GAGCTTCCGG AGTGGTTTGT	840
25	GCAAGAGGAA AAGCAGCACC GGATACGACA GTTGCCTGTT GGTAAGAAGG AGGTGGAGCA	900
	TTACCGAAA CGCTGGCGGG AAATCAATGC ACGTCCCCATC AAGAAGGTGG CTGAGGCTAA	960
	GGCTAGAAAAG AAAAGGAGGA TGCTGAAGAG GCTGGAGCAG ACCAGGAAGA AGGCAGAAC	1020
30	CGTGGTGAAC ACAGTGGACA TCTNCAGAAC GAGAGAAAGT GGCACAGCTG CGAAGTCTCT	1080
	ACAAGAAGGC TGGGCTTGGC AAGGAGAAC GCCATGTCAC CTACGTTGTA GCCAAAAAAAG	1140
	GTGTGGCCG CAAAGTGCAC CGGCCAGCTG GAGTCAGAGG TCATTTCAAG GTGGTGGACT	1200
35	CAAGGATGAA GAAGGACAA AGAGCACAGC AACGTAAGGA ACAAAAGAAA AAACACAAAC	1260
	GGAAGTAAGC AGAGCTGCCA GGCTCCCAGG AGAGCATGGG GACTAGGAGG AAGGGTGTGG	1320
	CATGGCTCAG TCTGGCCCCC TTGATTACCG GCCTAGCCCC TGCTCACATC ACAGCTGTCT	1380
40	GAAGAACAGT GAGGTGGAGT GCCTAGAACT CCCGTGGTGG TCCTGAGCAG AGAGGAGGAT	1440
	GTCCTCCTGC CTGCTGAAG GTCTCCATG AAAACACTGC TGAACGTGT TGACACTCAT	1500
	GACCTTTTTT TAAACCGTT AAAGGGAAGT TCGGTGTGG AGCGATACTC AATGTAGTCA	1560
45	GTCTACACCT GGACGTGTGG GCCACTTAAG CCCTCCCCAC CCCCATCCTA TTCCCTRAATA	1620
	AAACCAGGAT AATGGAARAA AAAAAAAAAA AAAAAAAAAG GGGGGGCCN TAAAGGGNCC	1680
	CANNTTT	1687

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(2) INFORMATION FOR SEQ ID NO: 160:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1842 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

	GGATGACAGA TTGCGACANA GATTGTGAC CCTTCCTGCT GAACTTCAGA GGGAGCTGAA	60
	ANCAGCGTAT GATCAAAGAC AAAGGCAGGG CGAGAACAGC ACTCACCAGC AGTCAGCCAG	120
5	CGCATCTGTG CCCCGAGAAT CCTTTACTTC ATCTAAAGGC ACCAGTGAAA GAAAAGAAAA	180
	GAAACAAGAA GAAAAAAACC ATGGGTTCAC CAAAAAGGAT TCAGAGTCCT TTGAATAACA	240
10	AGCTGCTTAA CAGTCCTGCA AAAACTCTGC CAGGGGCTG TGGCAGTCCC CAGAAGTTAA	300
	TTGATGGTT TCTAAAACAT GAAGGACCTC CTGCAGAGAA ACCCTGGAA GAACTCTCTG	360
	CTTCTACTTC AGGTGTGCCA GGCCCTTCATA GTTGCAGTC TGACCCAGCT GGCTGTGTGA	420
15	GACCTCCAGC ACCCAATCTA GCTGGAGCTG TTGAATTCAA TGATGTGAAG ACCTTGCTCA	480
	GAGAATGGAT AACTACAATT TCAGATCCAA TGGAAAGAAGA CATTCTCCAA GTTGTGAAAT	540
	ACTGTACTGA TCTAATAGAA GAAAAGATT TGGAAAAGT GGATCTAGTT ATAAAATACA	600
20	TGAAAGGCT GATGCAGCAA TCGGTGGAAT CGGTTGGAA TATGGCATTG GACTTTATTTC	660
	TTGACAATGT CCAGGTGGTT TTACAACAAA CTTATGGAAG CACATTAAGA GTTACATAAA	720
25	TATTACCAGA GAGCCTGATG CTCTCTGATA GCTGTGCCAT AAGTGTGTTG GAGGTATTG	780
	CAAAGTGCAT GATAGTAATG CTCGGAGTTT TTATAATTTC AAATTTCTTT TAAAGCAAGT	840
30	GTTTGTACA TTCTTTCA AAAAGTGCCA AATTTGTCAG TATTCATGT AAATAATTGT	900
	GTAAATTATT TTACTGTAGC ATAGATTCTA TTACAAAAT GTTGTGTTAT AAAGTTTTAT	960
	GGATTTTAC AGTGAAGTGT TTACAGTTGT TTAATAAAGA ACTGTATGTA TATTTGGTAC	1020
35	RGGCTCTTT TKGTGAAYCC TTAAAAACTC AACTCTAGGA RGCAACTACT GTTTATTATA	1080
	CTAAARGGCT GAAAAMCTC CAGGCCAGAC TGCTAACGTC TGAAATYCCT GAGAGGTCTC	1140
	AGACCGGGAT TCTACTTGTT CCAAGAAAGG GTAAAGCTTC TAAACCATCT TATTCTGTG	1200
40	TCCAAGCATG AACACAGGAG CATGTYAAGA AAATCTTAC TACTTTCTYC CATGCGGAGA	1260
	AATCTACATA TTTTGAATTA GAAACACCCT CACACCCACT TGAAGATTTT TTCTCTGGGA	1320
45	ACATTTATGTC CCGTAGATCA GAGGTGGTGT TGTCTTTTG CTTCTACTGG CCATTGAGAA	1380
	ACTTTGATGA TAAAAAAAGAA CGGTATAGAT TTTTCAAACG TATATAAAAT ATTTTTATGT	1440
	TATATGTTAT GCCATAACTT TAAAATAAA ATAGTTAAA ATTCTATGCT AGTGGATATT	1500
50	TGGAACCTTT TCCTCAAACA AACACCCAC ACTGACTTCA GCAAAACCTT AAAACTAGCT	1560
	ACAGATTACT ACTACGAATG AATCATYAAG TTTTGTGTCT GCAACAAATT AGAAGCACTA	1620
55	AGCCCAAATA TCAGGAAATG TGTGTATGAT GGAATTTCCT AGGACAAAC AGATCAAGAT	1680
	TAAAACAGGA TCAAGGATTA ATGGTATAAA AATGGTCTAC TAAAACAGGA TCAAGGATTA	1740
60	AAACAGGATC AAGGATTAAT GGTATAAAA TCTCTACTGG TTACCGGGTG GCNGGGCCAT	1800

ACAGGGTAGT GGTGGATGGA TAGTTAGTT TGGNAAGGGT AA 1842

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(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 770 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

GGCACGAGCC CTATGCTGTT CTTGTGATAA TGAGTGAGTC TCACAAGATC TGGTGGTGTT	60
ATAGGCATCT GGCATTTCCC CTGCTGACGC TCATTCTCTA TCCTGCCACC CTGGGAAGAA	120
20 GTGTCCTCTG TCATGATTGT AAGTTTCCTG AGGCCTCCCC AGCTATGTAG AACTGTGAGC	180
CAATTAACCC TCTTTCTCT ATAAATTATC CAGTCTTATA TATTCTTCA TAGCAGTGTG	240
AGAACAGATA ATACCGTAAA TTGGTATCAC AGAGAGTGGG GTGTTGCTAT AAACACATCT	300
25 GAAAATGTTA AAGCAAATTT GGAACTGGGT AACAGGCAAA GGCTGGAACA GTTKGAAGAA	360
CAGTTAAGAA GAAGACAGGA AAATATGAGA AATCTGAAA CTTCTTAGAG TCTTAAAGGT	420
30 CTCAGAAGAC ATGAAGATGT GGGAGCTTT GGAACTTCCT AGAGACTTGT TTGAATGGCT	480
TTGACCAAAA TGCTGATAGT GATATGGACA ATGAAGTCCA GGCTGAGCTT ATCCAGACAG	540
ACATAAGAAG CTCGCTGGGA ACTTGAGTAA AGATCACTCT TGCTAGGCAA AGAGACTGGT	600
35 GGCCTTTTTT CCTCTGCCCT AGAGATCTGT GGAAATCTGA ACCTGAGAGA GATGATTTAG	660
GGTATCTGGC AGAAGAAATA TCTAAGCGGC AAAACCTTCM AGAGGAAGCA GAGCATAAAC	720
40 GTTTGAAAAA TTTCAGCCT GACNATGGGA GACCAAAGTT AAACCCAATT	770

45 (2) INFORMATION FOR SEQ ID NO: 162:

(i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 519 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

55 GAATTCGGCA CGAGCTGAGA GGCACAGGAG CAACAGCCAG TGCCCCCTGC AGAGGACCAC	60
TGGGGTCACA GACTTCARAC CTGATGACCT GGGCTCAGAT CCCAGCTCTG CACCTACCAG	120
60 CGGTGTGACA AGGTGTCTC TCTGAGCCTC AGTCACACAC TGCCCTAACG GTTGGGCCTC	180

	ATGGAGCTGT TTGTGAAGGT TAAATGGAA GACATAAAGC ACTTAGCCA GAGCCAAGGA	240
	CATGCTGAAT AGGATAATGG TGGCCTCCTT TGGCGCTGTG CTGGTGCAGG TGTGCCGAGG	300
5	AA YTGGGCAG GGGTGACAGA TACCTCTTCT AACCTAGTTC CTTTCCAAGA ACCTAATTGG	360
	TGTCTCTCCC TCCCCCAGGC AATTGGAAGG AGGAGGCTGG GCCCCAGCCC CAGAATACGG	420
10	GAGGTTTCTC ACCGTGGTAG GGAAATTGCT GGGTTGGGG TGTGGCAAC CACAGTGATC	480
	GTCTCTCTGC AGGACGGATG AGGCTTTGCT GACAGAGGC	519

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(2) INFORMATION FOR SEQ ID NO: 163:

	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 753 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:	
	GGCACGAGCG GCACGAGCAG CCAGTTGCTG ACTGGCACAT GGCCCTCCAGC GTCCCGGCTG	60
	GTGGGCACAC TAGAGCCGGA GGGATCTTCT TAATTGGTAA ATGGATCTT GAAGCTTCAC	120
30	TGTTTAAATC TTTTCAGTGG CTTCCCTTG TACTTAGAAA AAAATGCAAC TTCTTCTGCT	180
	GGGACTCATC CGCTCACAGC CTTCCCTCC ACCCTCTCTC TGCCCATGC TCTGCCCTG	240
35	CCTGCCATGC CTCCGATACT CACCTTTGT ACCCCAGCAC CCGTGCCCTC TGCCCTCGA	300
	TCTTTGCCTG GCTGGTTGCT CCTCACTCAG TGTCAGGAC AAATGCTCCT GGCCCTACCC	360
	CATCTAGCCA GTCTAGCCCG GTCTTCCCTG TCTTCCCTGT TTCAATTCAATG GCTCTTATTG	420
40	TTTGTWACT TGTGTGCTGT TGACTTTAA CTCTCTCAGT CCCCACGTGA ATGCAAGCGA	480
	TCTCCCAAGC TCCTAGAATT GTTCCTGCCT CTTCACAGGC CCTTACGCTG TGTGTGCTCG	540
45	TGCCGAATTG GGCACGAGGG TATGTGCACT TGCTGGTATG TATGTACGTG TTTCGTAACA	600
	CATACGTGCA CACGCAGAAT GCTTCCAGGG GACTGCACAG CCTCTAGTTC GCAGCCCCA	660
	CCCCCTCCCTT TGSCCCCTGCA CTCTCCCTC TCTGAGCTGC ATTCAATGAA AAGGGTGCAN	720
50	GGTTCCGTGAN CCCGCNAGCG NCACCTCCTG GGA	753

55 (2) INFORMATION FOR SEQ ID NO: 164:

	(i) SEQUENCE CHARACTERISTICS:	
60	(A) LENGTH: 1400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

5	GGCACAGTTT ATTAATACCT ATTATGGGA AGTCACITTG GTTGCATTG AAAATTACAT	60
	CATCTTTAAA GCAGTATTTG TCCCCAGNTG GACTCATCAC TAGCAAAGAC TAGGTTCA	120
10	GGAAGGCATA GGGTGAGAGA ATGGGAAGAT GRAGTGGAGG CGGGTTGTTA AAGTGCTGTC	180
	AGTGAGTGTAT TTTGTCTACT TGAATAATGG TCCATGTTG GGGGCATATT GTGTTTCATA	240
	AGAAGTGAAA GGTATTTGCA AAGTAAAGCTA CAAATGACCC ATAAATCTGT TAACAACAGT	300
15	CCTTAATATG CAAAGATGAA AAACAGCTA TACTGCTACC CAAAGGGAAC TGGTGCTTGG	360
	TGATGTGCAAG ATGGGGCTGT TGGTTAAGAG AGCTATTACA GGTTTTCTCT CTTAGGTTTC	420
20	ATAGGAGGTA GTTACTGAGA TGAGATTGTT TTATCTTTT GAATACAGAT CTCTTGTCTT	480
	GAGTTAGTTC TGAGGATGGG AGTAATAAAG GAGTTTTTG TTTTTTGTT TGTTGTTTG	540
	TTTTGGCTCC TTAGTAATAC TCCTCTGACA TTTATTTCTA TTATTCTTCA AAGAAAGGAA	600
25	ACCAACTGAA ATGTTTGCTT TAACAAACAT TTTAATAAGT TCTCTGGTT TTTTTTCCCC	660
	CTTTTAAAAA AATTAGCATA TACCAAGCA ATAAAAGAAC TAATGTTAAC TATTGTATGC	720
	TACAACCTAA GTGATTTTTC TAAAGAACCA CAATGTCATT GRAAGTATTAA TTGAAAAGGA	780
30	TCATAGTCAC ATTGAATTG TGAAGGCCAA AGAAATTGAA GGGAGTGATA TTTTCATTIT	840
	ATGATATTCA CATATTTAGT AATTGTTGTG TACAAGAATA CCAGGCAGAG TGTTTACCC	900
35	ATGGAAACAG GTTTCAGATT ACTTTGTTT TACTGTTAGA GTCTCAAGTT TAGAAATGCT	960
	AACACTTAA TCAGTTTTT TCTCACTATA CTTGAAGATT GTTAATATT TGATATCTTC	1020
40	CTAGCTTGAT GGAATTAAA CATATCTTCA GATCTGTGAC AGTGACAGCC AATAGGACTG	1080
	ATAATATTAG CTTCAAACCA ATAATATCCA GGGTTAAAAT AAAAATCTATA GTGAAAGTAC	1140
	GATTGTAAAA TTATGCTATA TTAACCTTTA AGTCTGTAAT AACTTGACAT CAAAATGTTA	1200
45	TGTAATTACC ATAATAATG GCTAGCGAGA ACATCTTGG AAATTCTCAA ATTACCTTTC	1260
	TTACTACACT GTTTGCAGAA TGAATGTTAGA AATGATCCTG TTAGCTTCT GAATGTTCTG	1320
	TGGTTGAATG TGTGTTTGT TAAATAAGC TTTGGTATT TGTTAAATW ACAAAAAAAA	1380
50	AAAAAAAAAA AAAAACTCGA	1400

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(2) INFORMATION FOR SEQ ID NO: 165:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2153 base pairs

60 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

5	CAGGCCTCAG	GGCCTCTGGT	GGCTCTGGCC	CAGACAGTAT	TTGCAGTTCT	TGTGCTATGG	60
	GTGGGAGTCT	TCTTCCTCAA	GTTCGGCAG	CTGTGCTGTG	NCTGGATGGG	CTGCTCCCTCC	120
10	CAGGGCTCAA	GGGCTGTGGT	CCGCTCAGGG	TCTCATTCC	CCAGGCCAAG	TTCAAGGCAG	180
	CAGCCCTTGT	TGAGGCGCTC	TTGGCCCTGG	CCTGGAGGG	GAACTTTAAG	CTTTTTTGCT	240
15	CACAGGGACG	TGGTATGGGC	CCTGGGTGCA	GGTGCCACAA	TTCTGCTAAT	GAGAGCTTG	300
	TCTGATCAGT	CCTGGGTCCA	TCAGTTTGTC	CATGTGTCG	GCTGCCAGCC	CGTCCCTTGG	360
	GATCCTTCCC	CTGGGGTGT	GCCTTGTCA	TTAGTATATA	CTCATTCCCT	CATGCTTTCC	420
20	TCAGCAGAAC	ACTTCCACTT	CTGAGGTGAG	CTTTGCCCC	RTGCCCTTCC	TCCACAGGTG	480
	TTGCCTTTT	ATAAAAGACCT	GATAGCAGAA	TAAAATTGGTG	TTTCCCTGTT	GACCCAGCAC	540
25	CATTTCTGTG	GGCCTAGAAT	ATGGCCCTCA	ACCCCTAGAG	TGGGGCAGTG	AGGGCTTGAG	600
	GAGTGACCCCT	TCCTTTCTCA	TGGTTTTAGT	CATTTGGCT	GCCAGCCCTT	AATGGCACAG	660
	ATCTGCTGCT	TCTAACAGAT	GGCCAGGAGG	TGACACCGAT	TTCAGCCATT	GCCAAGGTTA	720
30	GCACCCCTCTC	CTTTGAGCCT	AGGGCCACAC	TGTTCATTTG	CACTTTAGGC	AAAGTGCCTGT	780
	TTGGCTTAA	AGGTAAGCCT	GCCAGCTGTG	AGAAGCCTTG	GTAACTGATG	GACTCATTTC	840
	CTGGTCCCTTA	AAGATGCAGC	CTCTTAAGGG	CTCCTTGATG	GATGCCATCT	CTCCTAGCCC	900
35	CCAGCCCTGG	TGCCACTGGT	GGGCAGGTTTC	CCATTCTTGT	GGGCTGGGAG	GGACAGCTTG	960
	CCTGTTCTG	GTCACAAATT	ACAGTCTTCT	CTCCTGTACC	ATTCTGTGGC	TTCAGCATGG	1020
40	GGGCAGTAGC	CTTCATTTAG	TGTAGATAGT	CATTCCCTGG	TAGGGTGGAG	GGTAAGACAT	1080
	ACGGTCTGGA	ACTGTTGGG	ACCTTTGGG	GATGTCTGT	GCCTCCCAGA	TTCCTMGATT	1140
45	CTGGGAGGAG	AGGCTGCCGC	ATTCTGCTGC	TCCTCACAGC	GAGCAAAGCT	GCACCCACTT	1200
	ACATTCAGTA	TTTTCCCTGGC	ACTACAAAGA	GTGGGAAGGC	CTGGGATTGT	CTGCTGCTCC	1260
	CTTAGAGCAG	GGCCCCCTYTT	TTCAGCACTT	TGGACACCTG	GAGACCCAGC	CCTGTTATTT	1320
50	AATGGTAGTG	GGCAAGTGTG	TGTGCATACT	GTCTGCCACT	GCTTTCTCCC	TGCCCATGC	1380
	CAGAGAGCCC	TGTCCCTGCC	AGGCCAGCC	TTCTTAGCCC	CAACTTGGGA	ACAAAGTGCA	1440
55	ACATGGGATC	ATGGGTTGGG	GTGCTCAGGT	GAGCCCTCTC	TATAGTGCCT	CCCTGGGCCA	1500
	AGCTGACACC	AGCCCCCTGAG	GGTGGGGTGG	GACGGGTGGT	GCTTAAAGA	GGAAGGGAC	1560
	CAGTGTAGCA	ACTTGCCAGG	GACCCACCC	CTCCCTCTCT	GGGCCTGTGC	AGTGAGCATG	1620
60	GGGATTCCCA	TCAAGGGCC	TGGCACCTGT	GCTAGTTACG	TAGCCGCTGN	TCACGCCCTC	1680

	ACTCCTGACC ACATGCACGT TCCCTAGATG CAGACTGCTT TGAACATTAA AGCTGTACAA	1740
5	TTTGGTTATG TTTGTGCTGA CTTAAAATAT ATTTTAATGA GGAAAAAATA ATGGAGAAC	1800
	CTGGGAAGGA CCTGGTTCTT TTGCTTCTCG GGGAACTGTA AGCCCTCGCG TTCTGGGAAT	1860
	CGCTCTCTGC TGCTCTTCC TGGAGCTAA GCCTGTCTCC ACCGCCCCAG GCCTGCGCCG	1920
10	GTGCTCCCGC CGCAGTTGCG TTTGCTTGG ACCTTGCCTG CGGGGGAGGG GGTGCTCGGT	1980
	CCGAGCCCCC TCCTTTCTGT ACACCTAGCG CTGCCCCCCC CGCTTGTGTC TGAGGTCGTG	2040
15	TATGTCAAAA ATAAAGCCGC TAGAAACGGA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA	2100
	AAACTCGAGG GGGGGCCCGT ACCCAATTAA CCCNNTATGA TCTATAAAGC GTC	2153

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(2) INFORMATION FOR SEQ ID NO: 166:

	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 1251 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:	
30	GCCCACGCGT CGGCCACGC GTCCGGCGGT GCGGAGTATG GGGCGCTGAT GGCCATGGAG	60
	GGCTACTGGC GCTTCCTGGC GCTGCTGGGG TCGGCACTGC TCGTCGGCTT CCTGTCGGTG	120
35	ATCTTCGCCCG TCGTCTGGGT CCTCCACTAC CGAGAGGGGC TTGGCTGGGA TGGGAGCGCA	180
	CTAGAGTTTA ACTGGCACCC AGTGCTCATG GTCACCCGGCT TCGTCTTCAT CCAGGGCATC	240
40	GCCATCATCG TCTACAGACT GCCGTGGACC TGGAAATGCA GCAAGCTCCT GATGAAATCC	300
	ATCCATGCAG GGTTAAATGC AGTTGCTGCC ATTCTTGCAA TTATCTCTGT GGTGGCCGTG	360
	TTTGAGAACC ACAATGTTAA CAATATAGCC AATATGTACA GTCTGCACAG CTGGGTTGGA	420
45	CTGATAGCTG TCATATGCTA TTTGTTACAG CTTCTTCAG GTTTTCAGT CTTCTGCTT	480
	CCATGGGCTC CGCTTTCTCT CCGAGCATTT CTCATGCCCA TACATGTTTA TTCTGGAATT	540
	GTCATCTTGTG GAACAGTGAT TGCAACAGCA CTTATGGGAT TGACAGAGAA ACTGATTTTT	600
50	TCCCTGAGAG ATCCTGCATA CAGTACATTC CCGCCAGAAG GTGTTTCGT AAATACGCTT	660
	GGCCTTCTGA TCCTGGTGTGTT CGGGGGCCCTC ATTTTTGGA TAGTCACCAAG ACCGCAATGG	720
55	AAACGTCCCTA AGGAGCCAAA TTCTACCAATT CTTCATCCAA ATGGAGGCAC TGAACAGGGAA	780
	GCAAGAGGTT CCATGCCAGC CTACTCTGGC AACAAACATGG ACAAAATCAGA TTCAGAGTTA	840
60	AACAGTGAAG TAGCAGCAAG GAAAAGAAAC TTAGCTCTGG ATGAGGCTGG CCAGAGATCT	900

	ACCATGTAAA ATGTTGAGA GATAGAGCCA TATAACGTCA CGTTTCAAAA CTAGCTCTAC	960
	AGTTTTGCTT CTCCATTAG CCATATGATA ATTGGGCTAT GTAGTATCAA TATTTACTTT	1020
5	AATCACAAAG GATGGTTTCT TGAAATAATT TGTATTGATT GAGGCCTATG AACTGACCTG	1080
	AATTGGAAAG GATGTGATTA ATATAAATAA TAGCAGATAT AAATTGTGGT TATGTTACCT	1140
	TTATCTTGTGTT GAGGACCACA ACATTAGCAC GGTGCCTTGT GCAKAATAGA TACTCAATAT	1200
10	GTGAATATGT GTCTACTAGT AGTTAATTGG ATAAACTGGC AGCATCCCTG A	1251

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(2) INFORMATION FOR SEQ ID NO: 167:

	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 882 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:	
	GACSMTCAG AACTATGGTC CCCCAGGACT GCAGGAATTC GGCACAGCGG CTGGGGCGC	60
	GAGGTGAGGG GCGCGAGGTT CCCAGCAGGA TGCCCCGGCT CTGCAGGAAG CTGAAGTGAG	120
30	AGGCCCGGAG AGGGCCCAGC CCGCCCGGGG CAGGATGACC AAGGCCCGGC TGTTCCGGCT	180
	GTGGCTGGTG CTGGGGTCGG TGTTCATGAT CCTGCTGATC ATCGTGTACT GGGACAGCGC	240
	AGGCGCCCGCG CACTTCTACT TGCACACGTC CTTCTCTAGG CCCACACGG GGCGCCCGCT	300
35	GCCCACGCCG GGGCCGGACA GGGACAGGGA GCTCACGGCC GAYTCGATG TCGACGAKTT	360
	TCTGGACAAG TTTCTCAGTG CTGGCGTGAA GCAGAGTGAC YTCCCAGAA AGGAGACGGA	420
40	GCAGCCGCCT GCGCCGGGGA GCATGGAGGA GAGCGTGAGA RGCTACGACT GGTCCCCGCG	480
	CGAMGCCCGG CGCACCCAGA CCAGGGCCGG CAGCARGCGG ANCGGAGGAR CGTGCTGCGG	540
	GGCTTCTGCG CCAAYTCCAG CCTGGCCTTC CCCACCAAGG AGCCGCATT CRAGCACATC	600
45	CCCAAACTCGG AGCTGAGCCA CCTGATCGTG GACGACCGGC ACGGGGCCAT CTACTGCTAC	660
	GTGCCCAAGG TGGCTGCAC CAACTGGAAG CGCGTRATGA TCGTGCTGAG CGGAAGCTGT	720
50	GCACCGCGTG CGCCTACCGC GACCCGYTGC GNTCCCGCGC GAGCACGTGC ACAACGCCAG	780
	CGCGCACTGA CTTCAACAAT TCTGGCGCCG CTACGGGAAG TCTCCCCAC CTCATGAAGT	840
55	CAAGCTCAAG AATACACCAA TCTCTCTGC GCGACCCCTTC TG	882

60. (2) INFORMATION FOR SEQ ID NO: 168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1208 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- 5 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

10	GGGAAACTCA AAAGGATGAT GGAATGGTTG ATGGAGCCAG AGCCTAGAAG TRAAGGGATA	60
	CAGAGTGAAG ATAGAGGTAT TTACGTATAT TTWAATATTA GCTTTGGAAT TACGTAGGGA	120
	TTCTTAAGAA AAGATCATGA CAGGACAGCC ACATTGGA AAATGTCAGG GCAGCCAGTG	180
15	CATGGTCCTC CTGGGGCTCC TCAGTTGACG GGTAAATC ATTTCCTGAT CCCCCCTGCC	240
	TGGTTTGAGG AATGCATACA GTACGTGAAA TGCCTGTGGT ATGAGTTGCA ATGGGCAATC	300
20	AACCTGGGTA AATCCAAGAT TAATGATTAG TTCTAAAGAT CCAGTTGAAG TTCTAGAGTG	360
	GGAATTTCCTC GTCAAGCARN TCAGCACAGC TTTATGCCTG TTCCCTCTAAT AACGATAGGT	420
	AACAAATAGC TGTGKTKWCA CAGCTAGGAR GATAACAAA TCTAGAGTTC TTGARTCTCA	480
25	TTTAATAAAAT AAKTATTATG AGTACCAACT GCATATTCA GGCACATGCAT TTGACTCTGT	540
	TAAATACTGA TYCCTTAKGA CMSCCACWTC AGAWAACMTT AATCTGTCTG ATCAATAAAC	600
	AGCTTGACTT AGAGRGGTAA AATAGCTTGC CACAGGTWAC CCAATTAGTA GGTAACAGCG	660
30	ACAGAATAAC AGTGCAGTTA AAATCTTACA CTGGAGACTA ATTCATAAG TTTGAATTTC	720
	AGTTCTGCTA TGAAATTG GGTGAGTACC TTAATTYACC TGAGTCTCGG TCTTTATATC	780
35	TGTAGAATGG AGCTAATGAT ATTACTTAAT TTGCTTATG TGAGATTAAA TGTACTAATA	840
	TATGTAAATC ACTTACAACA GCATTTGACA TATTTGACAT ACTTAATATA TTTGCTACTA	900
40	ATACTATTAG CAACAGCATT CTGATTTCC AAGTTGAAAT TCAGTGTTC CTTTTTTACT	960
	TTGCCATAAT TTACAATGTT GTGCTCTGTA AACCATAAT TTCCCTGAGG TGTTGTCAGG	1020
	TTAAAAAAA ATCACTATGG CCCCCARNMA CTTGGAAAAT AGAAATGAGA CCAGCTTCAT	1080
45	CTATATTCTT TACTGCAAAT AACTTAAAT TGTAATAGGC TAATATGTAC TGGGACTTCC	1140
	AATTGGGAA TATGACAAAA ATAATACTAT TTAGCTAAAA CATATACAGA ACTTATTTT	1200
50	CCTCTGAA	1208

(2) INFORMATION FOR SEQ ID NO: 169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- 55 (D) TOPOLOGY: linear

60

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

5	GGCACGAGAG AAAAGAGGTT GAGAATGTTT TCTAGCAGGC AGAATGTGCA TACATGTTTT	60
	CATGARTGTC CTTTGGGTGC TGTTTCTTTT AAATCCTCTG TGCACAGGGC TCTGGCCTTT	120
	ARTAAACTGT TTTTCTGTCT TACGTCAATGC TGACTGGGTG CTAGGGGCTG ATTACAAAGG	180
10	GGAAGAGTTG AACAGACATC AGGGGCCGAT GAAACCAAAG GACTAGGAGT CAGGAGAAC	240
	AGTCAGGGAT TAGGAGACAG CGGTTTGGTT TATTGTTATC CAGCTGGAGG ACTCCTAGGG	300
15	GCAGCAGCAG GAGGAATACC AGGGCCACGG AGGGGCAGGA GTCTCACAGT GGAGGGCAGA	360
	CTCTAACAGA TGCCAGCTGA ACGCTCGCTG GCCCTGGATG TCATACGAGT TGGGGACCAG	420
	AAATCTGGGC TCAGAGAACCC CGTCCAGGGA GATTTGAAGC CATGGTTAT CTTCTAGAGT	480
20	TGATACTGAT AATATATTTT AATTTTATTAT GATGTTAAT ACCTTCTGAA ACAGGAGGTT	540
	AAGATCAGAT GGGAGGCCY TCTGTTGAAG GATCTGGGA ACCTTGGTGG TTTTTTTTTT	600
	TTGGTTTTTT TTTTTTGTAT CGAGCTGTGG ACATCCTCT TAATTCGATT NTGAGGATTT	660
25	GTTTAACTAA AAAGTTCCCA AACACAGAAA GGGCTCCCC ACCTGCTTG GGGAGCTGTC	720
	TGTCTGGGA GTGCCAGGCA TCCSATGGGA CCCATCACTG CCAGTGTCTG TGCCTCCAG	780
30	AGGTCAGCCC TGTGTCTGCC CTGGCTCTGT CTCCCTCTGTG ACAGGGCAGA GCATTTCTGG	840
	TCAGTTCTC CATGGTGCCT CCCACCCCTT TGAAAGTGG ATGGACATGA TGGAATTCA	900
	TTGTCTCACC CTGATAGCCT GGGTGTGAT ATTCACTTA CCCGCACTCA GACACAGGCG	960
35	ACCTTGAAGC AGTTCTCGGT GTGTAGAGTC CACGTGACAG TCCCCACAGC CTCCCCAGAT	1020
	AGCTGTGTGC CTGTGCGCTA CTGCTGTGCC ATTTTCCCAA CTTNGCGTT TCACTAAATG	1080
40	CAGCTGATCT CTCTCTCTGT GCACTCGTGA TCCATGTTGA ACAATACATG TAGGTTCTTT	1140
	TTCCACGCAA TGTAAGAACCA TGATATACTG TACGTTGGAA AGCATTACCC TTATTTATAT	1200
	ACCTGAATGT TCCTACTACA CAAATAAACAA TATATTAAT WCTAAAAAAA AAAAAAAA	1260
45	CTGGAGGGGG GGCCCGGTAC CCAAATCGCC GGATAGTGAT CGTAAAC	1307

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(2) INFORMATION FOR SEQ ID NO: 170:

(i) SEQUENCE CHARACTERISTICS:

- 55 (A) LENGTH: 1624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

60

	GGCACGAGGT CGCCGCCGCG GCCGCCTGGA ATTGTGGGAG TTGTGTCTGC CACTGGCTG	60
	CCGGAGGCGA AGGTCCCTGA CTATGGCTCC CCAGAGCCTG CCTTCATCTA GGATGGCTCC	120
5	TCTGGGCATG CTGCTTGGC TGCTGATGGC CGCCTGCTTC ACCTTCTGCC TCAGTCATCA	180
	GAACCTGAAG GAGTTTGCCT TGACCAACCC AGAGAAGAGC ACCACCAAAG AACRGAGAG	240
10	AAAAGAAACC AAAGCCGAGG AGGAGCTGGA TGCCGAAGTC CTGGAGGTGT TCCACCCGAC	300
	GCATGAGTGG CAGGCCCTTC AGCCAGGGCA GGCTGTCCCT GCAGGATCCC ACGTACGGCT	360
	GAATCTTCAG ACTGGGGAAA GAGAGGCAAA ACTCCAATAT GAGGACAAGT TCCGAAATAA	420
15	TTTGAAGGC AAAAGGCTGG ATATCAACAC CAACACCTAC ACATCTCAGG ATCTCAAGAG	480
	TGCACTGGCA AAATTCAAGG AGGGGGCAGA GATGGAGAGT TCAAAGGAAG ACAAGGCAAG	540
20	GCAGGCTGAG GTAAAGCGGC TCTTCCGCC CATTGAGGAA CTGAAGAAAG ACTTTGATGA	600
	GCTGAATGTT GTCATTGAGA CTGACATGCA GATCATGGTA CGGCTGATCA ACAAGTTCAA	660
	TAGTTCCAGC TCCAGTTTGG AAGAGAAGAT TGCTGCGCTC TTTGATCTTG AATATTATGT	720
25	CCATCAGATG GACAATGCGC AGGACCTGCT TTCCCTTGGT GGTCTTCAAG TGGTGTCAA	780
	TGGGCTGAAC AGCACAGAGC CCCTCGTGA GGAGTATGCT GCGTTTGTGC TGGCGCTGC	840
30	CTTTCCAGC AACCCCAAGG TCCAGGTGGA GGCCATCGAA GGGGGAGCCC TGCAGAAGCT	900
	GCTGGTCATC CTGGCCACGG ACCAGCCGCT CACTGCAAAG AAGAAGGTCC TGTGTCACT	960
	GTGCTCCCTG CTGCGCCACT TCCCCTATGC CCAGCGGCAG TTCCCTGAAGC TCGGGGGGCT	1020
35	GCAGGTCTG AGGACCCCTGG TGCAGGAGAA GGGCACGGAG GTGCTCGCCG TGCGCGTGGT	1080
	CACACTGCTC TACGACCTGG TCACGGAGAA GATGTTGCC GAGGAGGAGG CTGAGCTGAC	1140
40	CCAGGAGATG TCCCCAGAGA AGCTGCAGCA GTATGCCAG GTACACCTCC TGCCAGGCCT	1200
	GTGGGAACAG GGCTGGTGCG AGATCACGGC CCACCTCCCTG GCGCTGCCCG AGCATGATGC	1260
	CCGTGAGAAG GTGCTGCAGA CACTGGCGT CCTCCTGACC ACCTGCOGGG ACCGCTACCG	1320
45	TCAGGACCCC CAGCTCGGCA GGACACTGGC CAGCCTGCGAG GCTGAGTACC AGGTGCTGGC	1380
	CAGCCTGGAG CTGCAGGATG GTGAGGACGA GGGCTACTTC CAGGAGCTGC TGGGCTCTGT	1440
50	CAACAGCTTG CTGAAGGAGC TGAGATGAGG CCCCACACCA GGACTGGACT GGGATGCCGC	1500
	TAGTGAGGCT GAGGGGTGCC AGCGTGGGTG GGCTTCTCAG GCAGGAGGAC ATCTTGGCAG	1560
	TGCTGGCTTG GCCATTAAT GGAAACCTGA AGGCCAAAAA AAAAAAAAAA AAAAAAAAAA	1620
55	AAAA	1624

(i) SEQUENCE CHARACTERISTICS:

5 (A) LENGTH: 2003 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

10	GGCACGAGCC AGCTTGCAGG AGGAATCGGT GAGGTCTGT CCTGAGGCTG CTGTCCGGGG	60
	CCGGTGGCTG CCCTCAAGGT CCCTTCCCTA GCTGCTGCGG TTGCCATTGC TTCTTGCTG	120
15	TTCTGGCATC AGGCACCTGG ATTGAGTTGC ACAGCTTGC TTTATCCGGG CTGTGTGCA	180
	GGGCCCCGCT GGGCTCCCCA TCTGCACATC CTGAGGACAG AAAAAGCTGG GTCTTGCTGT	240
	GCCCTCCCAG GCTTAGTGTGTT CCCTCCCTCA AAGACTGACA GCCATCGTTC TGACACGGGC	300
20	TTTCTGCATG TGACGCCAGC TAAGCATAGT AAGAAGTCCA GCCTAGGAAG GGAAGGATT	360
	TGGAGGTAGG TGGCTTTGGT GACACACTCA CTTCTTCTC AGCCTCCAGG ACACATATGGC	420
25	CTGTTTAAG AGACATCTTA TTTTTCTAAA GGTGAATTCT CAGATGATAG GTGAACCTGA	480
	GTTGCAGATA TACCAACTTC TGCTTGTATT TCTTAAATGA CAAAGATTAC CTAGCTAAGA	540
	AACTTCTAG GGAACCTAGGG AACCTATGTG TTCCCTCAGT GTGGTTTCCT GAAGCCAGTG	600
30	ATATGGGGGT TAGGATAGGA AGAACCTTCT CGGTAATGAT AAGGAGAATC TCTTGTTC	660
	TCCCACCTGT GTTGTAAAGA TAAACTGACG ATATACAGGC ACATTATGTA AACATACACA	720
	CGCAATGAAA CCGAAGCTTG GCGGCCTGGG CGTGGTCTTG CAAAATGCTT CCAAAGCCAC	780
35	CTTAGCCTGT TCTATTCAAGC GGCAACCCCA AAGCACCTGT TAAGACTCCT GACCCCCAAG	840
	TGGCATGCAG CCCCCATGCC CACCGGGACC TGGTCACCCAC AGATCTTGAT GACTTCCCTT	900
40	TCTAGGGCAG ACTGGGAGGG TATCCAGGAA TCGGCCCTG CCCCACGGGC GTTTTCATGC	960
	TGTACAGTGA CCTAAAGTTG GTAAGATGTC ATAATGGACC AGTCCATGTG ATTTCAGTAT	1020
45	ATACAACCTCC ACCAGACCCC TCCAACCCAT ATAACACCCC ACCCCTGTC GCTTCTGTA	1080
	TGGTGATATC ATATGTAACA TTTACTCCTG TTTCTGCTGA TTGTTTTTTT AATGTTTGG	1140
	TTTGTTTTG ACATCAGCTG TAATCATTCC TGTGCTGTGT TTTTTATTAC CCTTGGTAGG	1200
50	TATTAGACTT GCACTTTTTT AAAAAAAGGT TTCTGCATCG TGGAAGCATT TGACCCAGAG	1260
	TGGAACCGGT GGCCTATGCA GGTGGATTCC TTCAGGTCTT TCCCTTGGTT CTTTGAGCAT	1320
	CTTGTCTTC ATTCGTCTCC CGTCTTTGGT TCTCCAGTTC AAATTATTGC AAAGTAAAGG	1380
55	ATCTTTGAGT AGGTTCGGTC TGAAAGGTGT GGCCTTTATA TTTGATCCAC ACACGTTGGT	1440
	CTTTTAACCG TGCTGAGCAG AAAACAAAAC AGGTTAAGAA GAGCCGGGTG GCAGCTGACA	1500
60	GAGGAAGCCG CTCAAATACC TTCACAATAA ATAGTGGCAA TATATATATA GTTTAAGAAG	1560

5	GCTCTCCATT TGGCATCGTT TAATTTATAT GTTATGTTCT AAGCACAGCT CTCTTCTCCT	1620
	ATTTTCATCC TGCAAGCAAC TCAAAATATT TAAAATAAG TTTACATTGT AGTTATTTTC	1680
	AAATCTTTGC TTGATAAGTA TTAAGAAATA TTGGACTTGC TGCCGTAATT TAAAGCTCTG	1740
	TTGATTTGT TTCCGTTGGG ATTTTGGGG GAGGGGAGCA CTGTGTTTAT GCTGGAATAT	1800
10	GAAGTCTGAG ACCTTCCGGT GCTGGGAACA CACAAGAGTT GTGAAAGTT GACAAGCAGA	1860
	CTGCGCATGT CTCTGATGCT TTGTATCATT CTTGAGCAAT CGCTCGGTCC GTGGACAATA	1920
15	AACAGTATTA TCAAAGAGAA AAAAAAAA AAAAAACTCG NGGGGGGCC CGGTACCCAA	1980
	TTCGCCCTAT AGTGAGCCNA TTC	2003

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(2) INFORMATION FOR SEQ ID NO: 172:

	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 786 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:	
30	GGCACAGCGG CACGAGAAGA CTTTGGTGT TAAGAGATTA ATGTGTTAGC CAGAACAACT	60
	CATTTCTCTA CCMGTGTGTA GTCCATTAT CTTTAAAGAT TTTCTATTGG AATAATTTTG	120
35	AAATTACTTT CTTAGTTTC TTCATTAAAA ACTAAGAAAA TGCTTTGT TTATGAATT	180
	GCTATTCTC TTGATTATTA TTCTTGGAGA AAGTCTATCA GACGTAATTG TTCTGATTIG	240
40	CTTCTAGGCT AGAGGAAAAT GTGAAAGATG ACAAAATGAAA ATTTCAAAGG TTGTCAGTAG	300
	TATGACTTCT TTTATCGTT GTCATTATCA CAAATATATC AACATAGGAC TTTTAAAAGA	360
	TATTTGTAC ATATTGGGCC TTAGTAGGAT TTTGCATGAA TTTTTTTTTT CTTTATGCC	420
45	CAGAGAGAAA GAGCAAAGAA ATAACCAAGG GTGATGTAAT CGTATTGAAG GTTTACCAAA	480
	TAAGGACTGC TTTTATTATG AACTATAGTC TATATTCTAA GTAAATCAAT TTTCTATTA	540
50	TGTGTTTTT GTTCTGCAG GCAAGATCTC TGAACATTAT GCAGAGGGTT CTTTAAAAAA	600
	AACAAAGTTG AATTTTTTA TTCTTGGAA TATTTTTTTT CATTGATTTC TCCCAAGTAG	660
	AGCAGATTCA AATCTCCTTT GTACCTATG TCTTTTTGT TTTGCTATTA GCTCAGTATT	720
55	CCGTTCTAC ATTTCCCTT CCTAGAACCA GTCAATAAT GACAAAAAAA AAAAAAAA	780
	ACTCGA	786

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(2) INFORMATION FOR SEQ ID NO: 173:

	(i) SEQUENCE CHARACTERISTICS:	
5	(A) LENGTH: 1758 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:	
	GGGACGAGCC CTGCCCACCT CCTGCAGCCT CCTGCCGCCCC CCCGAGCTGG CGGATGGAGC	60
15	TGCGCACGGG GAGCGTGGGC AGCCAGGGCG TGGCGCGGAG GATGGATGGG GACAGCCGAG	120
	ATGGCGGCGG CGGCAAGGAC GCCACCGGGT CGGAGGACTA CGAGAACCTG CCGACTAGCG	180
	CCTCCGTGTC CACCCACATG ACAGCAGGAG CGATGGCCGG GATCCTGGAG CACTCGGTCA	240
20	TGTACCCGGT GGACTCGGTG AAGACACGAA TGCAGAGTTT GAGTCCAGAT CCCAAAGCCC	300
	AGTACACAAG TATCTACGGA GCCCTCAAGA AAATCATGCG GACCGAAGCT TCTGGAGGCC	360
25	CTTGCAGGGC GTCAACGTCA TGATCATGGG TGCAGGGCCR GCCCATGCCA TGTATTTGC	420
	CTGCTATGAA AACATGAAAA GGACTTTAAA TGACGTTTTC CACCACCAAG GAAACAGCCA	480
	CCTAGCCAAC CGTATTTGA AAGCGTTTGT CTGGAGTTAG AAAGTTCTCT TCTTCACAC	540
30	GTCCCTCCCC AGGGTGTTC TCCCTGTGAC CCAGCCGCCT CGACTTCGGC CCGCTTGCTC	600
	ACGAATAAAAG AACTCAGAGT TGTGTGTGCA ATGCACACCC AGACACACGC ACGCACACAC	660
	ACCGCGCGGC ACACACATGC TTTTTCTGT TCCCCTCCGC TTTCTGAAGC CTGGGGAGAA	720
35	ATCAGTGACA GAGGTGTTTT GGTTTTATTG TTATGTGGGT TTCTTTGT ATTTTTTTTG	780
	TTTGTTTGT TTTAACAT TCAAAAGCAA TTAATGATCA GACATAGGAG AAACCTGAA	840
40	TAGAAACAAA ACTTTGAAT GCTGGATICA AAAAAAAA AAAGTTATCT GGACAGCTTC	900
	TTTGAGACTA TTTAAAAACT GGTACAACAG GTCTCTACAA CGCCAAGATC TAACTAAGCT	960
45	TTAAAAGGTC AAGAAGTTTT ATGGCTGACA AAGGACTCGC GCAACGCAGA AGGCCTTCC	1020
	CACCTTAAGC TTCCGGGGAT CTGGGAATT TACCCCCATT CTCTCTGTGTT TGTCTGAGTC	1080
	TCATCTCTCT GCAAGCAAGG GCTGAAATCA TTTTGTGG TTGTTTTGAG GGAGAGAGGC	1140
50	GGGGTGGGGG GGTGCAAATC TGCCAGCAGC TCTTACGTAA GGCAATGTTT ATTGGGGAGG	1200
	GCTGAGCTTT TATTTCTCC TCTCCAGTGG GGTTGGCTTT TATTGTTCT TGTTTGGGTT	1260
	TGGAATGGAA ATATGGATAG CAGCATAAAAG TACTTTTATT TTGACAAAAT TCATTTTTT	1320
55	CAACAATGGA GACATAGATT TGACCCACAA TAACTCTCC CCCTCTCTTT TTACTCTGCT	1380
	CAAAAAGCAT CTCTCCTCCC ATTACCCAAC CTTGGTCATA AGTGTGCGCTG GCTGGTTTGC	1440
60	AGATATTGT TCTGTTTGT AAAAATTGGC CATTAGTGCA TTTATTGAGA TGATCTCTAA	1500

	AGAGCTATGC CCTGACCTAC CCCTGATTCT ATGACATTGG GGCCCTTCCTT TTGCTGAAAC	1560
5	TGCCTTACGT AATGGTTTA CTCCCTGAAA GAGATTTGAC GGAATCCATT TTATGCCAAG	1620
	TGCTGCCCTG CACTGTTCT GCAATATGTG GTGTATGCTG TGGTGATCTT GCTGGAAATG	1680
	ATTATAAGTG TGTGTGTGGT GGGGGAGTGG GTATTACATG CATTGCTGAA GAGTCAAAAA	1740
10	AAAAAAAAAA AAACTCGA	1758

15 (2) INFORMATION FOR SEQ ID NO: 174:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 888 base pairs
- (B) TYPE: nucleic acid
- 20 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:

25	CTGTTAGAAT GCCCAGTTA CCTGGATGGC AACCCAACAG TGCTCCCTGCC CACCTGCC	60
	TCAATCCTCC TAGAATTCAAG CCCCAATTG CCCAGTTACC AATAAAAACT TGTACACCAG	120
30	CCCCAGGGAC AGTCTCAAAT GCAAATCCAC AGAGTGASMC ACCACCTCGG GTAGAATTG	180
	ATGACAACAA TCCCTTTAGT GAAAGTTTC AAGAACGGGA ACGTAAGGAA CGTTTACGAG	240
	AACAGCAAGA GAGACAACGG ATCCAACCTCA TGCAGGAGGT AGATAGACAA AGAGCTTTGC	300
35	AGCAGAGGAT GGAAATGGAG CAGCATGGTA TGGTGGGCTC TGAGATAAGT AGTAGTAGGA	360
	CATCTGTGTC CCAGATTCCC TTCTACAGTT CCGACTTACC TTGTGATTT ATGCAACCTC	420
40	TAGGACCCCT TCAGCAGTCT CCACAACACC AACAGCAAAT GGGCAGGTT TTACAGCAGC	480
	AGAATATACA ACAAGGATCA ATTAATTCAAC CCTCCACCCA AACTTTCATG CAGACTAATG	540
	ACCGAGGCAG GTAGGCCCTC CTTCAATTGT TCCTGATTCA CCATCAATCC CTGTTGGAAG	600
45	CCCCAATTTC TCTTCTGTGA AGCAGGGACA TGGAAATCTT TCTGGGACCA GCTTCCAGCA	660
	GTCCCCAGTG AGGCCTTCCTT TTACACCTGC TTTACCAGCA GCACCTCCAG TAGCTAATAG	720
50	CAGTCTCCCA TGTGGCCAAG ATTCTACTAT AACCCATGGA CACAGTTATC CGGGATCAAC	780
	CCAATCGCTC ATTCAAGTTGT ATTCTGATAT AATCCCAGAG GAAAAAGGGN AAAAAAAAARA	840
	AMAARAAAARA ARAAAGGAGA TGATGATGCA GAATTCCACC AAGGCTCC	888

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(2) INFORMATION FOR SEQ ID NO: 175:

60 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2379 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:

GGCAGAGCTA	GTGTGGACTC	CATCCCCCTG	GAGTGGGATC	ACGNCTATGA	CCTCAGTCGG	60	
10	GACCTGGAGT	CTGCAATGTC	CAGAGCTCTG	CCCTCTGAGG	ATGAAGAAGG	TCAGGATGAC	120
	AAAGATTTCT	ACCTCCGGGG	AGCTGTGSC	TTATCAGGGG	ACCACAGTGC	CCTAGAGTCA	180
15	CAGATCCGAC	AACTGGCAA	AGCCTGGATG	ATAGCCGCTT	TCAGATACAG	CAAACCGAAA	240
	ATATCATTG	CAGCAAAACT	CCCACGGGC	CGGAGCTAGA	CACCAAGTAC	AAAGGCTACA	300
20	TGAAACTGCT	GGCGAATGC	AGTAGCAGTA	TAGACTCCGT	GAAGAGACTG	GAGCACAAAC	360
	TGAAGGAGGA	AGAGGAGAGC	CTTCCTGCT	TTGTTAACCT	GCATAGTACC	GAAACCCAAA	420
25	CGGCTGGTGT	GATTGACCGA	TGGGAGCTTC	TCCAGGCCA	GGCATTGAGC	AAGGAGTTGA	480
	GGATGAAGCA	GAACCTCCAG	AACTGGCAGC	AGTTAACTC	AGACTTGAAC	AGCATCTGG	540
30	CCTGGCTGGG	GGACACGGAG	GAGGAGTTGG	AACAGCTCCA	GCGTCTGGAA	CTCAGCACTG	600
	ACATCCAGAC	CATCGAGCTC	CAGATAAAAA	AGCTCAAGGA	GCTCCAGAAA	GCTGTGGACC	660
35	ACCGCAAAGC	CATCATCCTC	TCCATCAATC	TCTGCAGCCC	TGAGTTCAAC	CAGGCTGACA	720
	GCAAGGAGAG	CCGGACCTG	CAGGATCGCT	TGTSGCAGAT	GAATGGCGC	TGGGACCGAG	780
40	TGTGCTCTCT	CCTGGAGGAG	TGGCGGGGCC	TGCTGCAGGA	TGCCCTGATG	CAGTGCCAGG	840
	GTTCATGA	AATGAGCCAT	GGTTGCTTC	TTATGCTGGA	GAACATTGAC	AGAACGGAAA	900
45	ATGAAATTGT	CCCTATTGAT	TCTAACCTTG	ATGCAGAGAT	ACTTCAGGAC	CATCACAAAC	960
	AGCTTATGCA	AATAAAGCAT	GACCTGTGAG	AATCCAATC	CAGAGTAGCC	TCTTTGCAAG	1020
50	ACATGTCTTG	CCAACTACTG	GTGAATGCTG	AAGGAACAGA	CTGTTTAGAA	GCCAAAGAAA	1080
	AAGTCCATGT	TATTGAAAT	CGGCTAAAC	TTCTCTGAA	GGAGGTCAGT	CGTCATATCA	1140
55	AGGAACATGGA	GAAGTTATTA	GACGTGTCAA	GTAGTCAGCA	GGATTTGTCT	TCCTGGTCTT	1200
	CTGCTGATGA	ACTGGACACC	TCAGGGTCTG	TGAGTCCCAY	ATCAGGAAGG	AGCACCCCAA	1260
60	ACAGACAGAA	AACGCCACGA	GGCAAGTGTA	GTCTCTCACA	GCCTGGACCC	TCTGTCAGCA	1320
	GTCCACATAG	CAGGTCCACA	AAAGGTGGCT	CCGATTCCTC	CCTTTCTGAG	CCARGGCCAG	1380
	GTCGGTCCGG	CGCGGGCTTC	CTGTTCAAGAG	TCCTCCGAGC	AGCTCTTCCC	CTTCAGCTTC	1440
	TCTTGCTCTT	CCTCATCGGG	CTTGCTGCC	TTGTACCAAT	GTCAAGAGGAA	GACTACAGCT	1500
	GTGCCCTCTC	CAACAACTTT	GCCCGGTCAAT	TCCACCCCAT	GTCAGATAC	ACGAATGGCC	1560
	CTCCTCCACT	CTGAACTAAG	CAGATGCCAT	CTGCAGAAGT	GCTGGTAGCA	TAAGGAGGAT	1620

	CGGGTCATAA GCAATCCCAA ACTACCAACA AGAGGACCTT GATCTGGCG AAAGCCMTCG	1680
5	GTGTGGCAGC TTTAGCCTCC TCCAGATCAC ATGTGTGCAA ATTATGGCTT CAGAGGTGGA	1740
	AGATAAACAG TGACGGGGGA ACAAACAGAC ACAAGAAGG TTTGGAAGAA ATCTGGTTG	1800
	AGACTCTGAA CCTTAGCACT AAGGAGATTG AGTAAGGACC TCCAAAGTTC CCCGGACTCA	1860
10	TGAATTCTGG GCCCTTGGCC NATTCTGTGC ACAGCCAAGG ACTTCAGTAG ACCATCTGGG	1920
	CAGCTTTCCC ATGGTGCTGC TCCAACCATC AGATAATGA CCCTCCCAAG CACCATGTCA	1980
15	GTGTCGTACA ATCTACCAAC CAACCAGTGC TGAAGAGATT TTAGAACCTT GTAACATACA	2040
	ATTTTTAAGA GCTTATATGG CAGCTTCCCTT TTTACCTTGT TTTCCCTTGG GGCATGATGT	2100
	TTTAACCTTT GCTTTAGAAG CACAAGCTGT AAATCTAAAA GCCACTTTT TTTAGAGGTA	2160
20	TAAAGAAAAA CTAGATGTAA TAAATAAGAT CATGGAAGGC TTTATGTGAA AAAAGTTGAA	2220
	TGTTATAGTA AAAAAAAAAG ATATTTATGT ATGTACAGTT TGCTAAAGCC AAGTTTGTT	2280
	TGTATTGATT TCTTTCGATT TATTATAGAT ATTATAAAAT AAAAAAAAAC AAAAAAAAAC	2340
25	TCGAGGGGGG GCCCGGTACC CAATTGCCCT TATAGTGAG	2379

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(2) INFORMATION FOR SEQ ID NO: 176:

	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 1348 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:	
	GCGCTTCAC GATGCCGGCG GTCAGTGGTC CAGGTCCCTT ATTCTGCCTT CTCCTCTGC	60
	TCCTGGACCC CCACAGCCCT GAGACGGGGT GTCCTCTCT ACGCAGGTTT GAGTACAAGC	120
45	TCAGCTCAA AGGCCAAGG CTGGCATGTC CTGGGGCTGG AATACCCTTC TGGGCCATC	180
	ATGGAGGTGA GGGGCAGGGG TGGGGACCCG TATGCCAGG GTCCCTCAAA GTGCTGGAGG	240
50	GGCTGTTRACT TGGTGGGAG TGGGTCTGTC ACAGCCATCC TCTGTCCAGG GTGGGGCAAG	300
	GCCTGGGACA GTGCCAGGCA CCCCAGGACC CCTTCCAGGC TTGTCTCCTG CTCCACCGCC	360
	TCAACACCCC CCACCCCTGC CCAAGCTGTT TCTCTCTGTC CTCTCTNNTT CCCTGCCCA	420
55	GGACTTCTCT CTTCTCCTCT GCCTCTCCTT GGACCCCTGTC CCTTCTCTA CCTCTGACCT	480
	GTGAACACAC AGACACATGC TCACACACTA AGTCCCARGC ACACMSAAAG CCAATGTGGA	540
60	CCAGCACAAA CCTCCACTCT CCCGGCTCCA TCCCARCGGG CCTGTGGCTG CCCATGAAAA	600

	CTGGGGCTA CCTGGAGGGA AGCATCCTCA TCCCAGGTGA GTGGGCACCA GCCCTTCCCT	660
	GTATGTGTGT TGTGGGTGGA AGCAGGCATG AGAGCATCTT AGCCCATAGG TTTGTATTCA	720
5	GGGACTTCCA AACCCAGACC TACAAAGAGT GTGTCTTCTA CCAGATCTTG TTCAAAAAAG	780
	GGTTTGTGAT GATGGAACTA CACGATAGAG GGAGTGAGCA AGAACAAATGA GGATTAGAGT	840
10	GGAGCGTGAA ATAGTCTAGG AGCATGGCTT CCAAAACATA TGCTGTGAGG TCTGTCCACC	900
	TGAGAGTTGG GCCATGGATT TAATTCTGAG CCTCTTAGCA GGCAAAGCAA AGACAGAAAG	960
	CAGATCGGCT GTGGATTTCT GTCTATAAAA TGTGAGTTCT TGGCCGGGTG CGGTGGCTCA	1020
15	CGCCTGTAAT CCCGGCGCTT TGGGAGGCCA GGGCGGATGG GTCCGAGGT CAGGAGGTTG	1080
	GAAACCATCC TGGCCGGAAT GGTGAAGCCC TGACTCTACT AGAAAGTCAA AGATTGGCTG	1140
20	GGTGTGGTGG CGTGCCTG TGTCAGCAGC TTCTCGGAG GCTGAGGCCG GAGAGTTGCT	1200
	TGGGCCTGGG AGGCCGAGGT TGCGGTGAGC TGAGATCCTG CCATTGCACT TCAGCCTGGG	1260
	CACAGAGCCA GACTCTGGCT CAAAAAAA AAAAAAAA ACTCGAGGGG GGCCCGTACC	1320
25	CAATTGCCG NATATGATCG TAAACAAT	1348

30 (2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1502 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:

40	CTCAAAATAA ATAAATAAAT AAAAATTGT ATTCCATTGA TTTGGGTAGA CACCAAGGAAT	60
	GTGCATTCT AACAAGCTTT CCAGGCGATC CTATAGTAAG TCATCTGTGG ACTACTTAA	120
45	GAAACTCTTC TATAGAGAAT GGAGTTGGAT TAATAATAGG TGATTTTTA CACTGGACTG	180
	ATTCACAAGA ACCTAACAG TAGTCCATGA AGCTGCTCAT CTGTGGTAAC TATTTGGCCC	240
	CGTCTCACTC TGAAAGCAGC AGGAGATGTT GTTTACTTTG TTTCTATCCC CTTTGTCTGG	300
50	AGATTAATTG TCCAATGAAA GTTTTCTCT CTATGCCATT CCTGGTTCTT TTCAAAGCC	360
	TCATACAAGA GGATTAGGTC ACAATGCATG CATTACCTTT TAAAAGAATG CGATATTGAT	420
55	ACCGATGCTT ACTTTTTTTT TTTTNACTA CTTGTTTAT TCCTTCCAGN AAAGTATAGC	480
	CCGCCTTCT ATAGCATAGT TCTCTTACGG TGGAATGATT CCTATAAGAT TTCTCATTAT	540
	TAAATCATGC ATTTTCAAG ATGGAATCAA TMTTGATTT AATCTAAGCT GATATTCTCA	600
60	TTTGTAGAA GAACAACCTA CATGCTAGAG AGAGAGGAGG AAATATAACCC ACGACCACAC	660

	AGCCAGTTAG TATCCAGTTG GTGCTGGACT CCAGCCAGGT GTCCTGCCTC ATGGTAGTTA	720
5	AATGATATAT AGAAAAGGTA AATTTTTAAA GAAATATTTA TTAATATATT CCTATAAAAC	780
	ATTTAAAGG TAACCACATA AAAATGGTTA ATTTTCCAT TCCAAAGTAA ATGCTAAGCA	840
10	TGTTTATTAA TGAAGCAGTA CTTCTGATTA GTATATGACA TTCTGAAGTT AATTAAACTC	900
	ATTGCACTAA ATGTGTCTTC CTTGGTATAG TGGAGGATTG GAGGATTGGA ATATAGAGTA	960
	GAGTGCTTGC TTAAGCCTGG GAGCCCACCT TTATAGCTAT TTGATGTAAG AAAAGAGACA	1020
15	TGGNCCATTT CTAAACTATA TAAGGTGAGT GTGTCTATTCC AGAGCAGATA TAAAGGAAAA	1080
	AGGAAACCTTT TTTGATTCCC ACCTTCCCAG CCTCACCTAG CCATCTTCCA GCCTCAAATA	1140
	TAGAGATGTT AGTGCAAGGT CCTGGGCTCT AGGTGATCAT TTCATAAGTC CTTTACAGAT	1200
20	AAAGAAAAAG TAGTGTGTTGT ATGTTTGTAA TTAAGTAACC CCAAAACAAA TTTATATTGT	1260
	ATTCAAGAAA ATTGGAATTC AGGTGTTAA TTTAGAACCA TGAAGTGCCT GCTGTTTAA	1320
	GCATTGACTT GTATAAAAG AATTGCAATGT CTCCAGTAAG CTTATGGGTT TTCTCATTAA	1380
25	TAGGTATATG GCTTTAATC ATGTAAGTG AAACATTAGT TTTCTTGCAT TTTATTACAG	1440
	GTTCTTTGTT GCAATAAAAGA TGCTGCTGAA ATTAATTGAA AAAAAAAA AAAAAAAACTC	1500
30	GA	1502

35 (2) INFORMATION FOR SEQ ID NO: 178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1637 base pairs
- (B) TYPE: nucleic acid
- 40 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:

45	ATTTCTAGC CCACAAGGAC TGAAGTTCAG ATCCAAAAGT TCACCTGCTA ATTATCTTCA	60
	CAAAAATGGA GAGACTCTC TTAAGCCAGA AGATTTTGAT TTTACTGTAC TTTCTAAAAG	120
50	GGGTATCAAG TCAAGATATA AAGACTGCAG CATGGCAGCC CTGACATCCC ATCTACAAAA	180
	CCAAAGTAAC AATTCAAACG GGAACCTCAG GACCCGAAGC AAGTGCAAAA AGGATGTGTT	240
	TATGCCGCCA AGTAGTAGTT CAGAGTTGCA GGAGAGCAGA GGACTCTCTA ACTTTACTTC	300
55	CACTCATTG CTTTGAAAG AAGATGAGGG TGTTGATGAT GTTAACCTCA GAAAGGTTAG	360
	AAAGCCCCAA GGAAAGGTGA CTATTTTGAA AGGAATCCCA ATTAAGAAAA CTAAAAAAGG	420
60	ATGTAGGAAG AGCTGTTCAAG GTTTGTTCM AAGTGATAGC AAAAGAGAAAT CTGTGTGTA	480

	TAAACAGAT GCTGAAAGTG AACCTGTTGC ACAAAAAAGT CAGCTTGATA GAACTGTCTG	540
	CATTTCTGAT GCTGGAGCAT GTGGTGAGAC CCTCAGTGTG ACCAGTGAAG AAAACAGCCT	600
5	TGTAAAAAAA AAAGAAAGAT CATTGAGTTC AGGATCAAAT TTTTGTCTG AACAAAAAAC	660
	TTCTGGCATC ATAAACAAAT TTGTTTCAGC CAAAGACTCA GAACACAACG AGAAGTATGA	720
10	GGATACCTTT TTAGAATCTG AAGAAATCGG AACAAAAGTA GAAGTTGTGG AAAGGAAAGA	780
	ACATTTGCAT ACTGACATTT TAAAACGTGG CTCTGAAATG GACAACAACT GCTCACCAAC	840
	CAGGAAAGAC TTCACTGAAG ATACCATCCC ACGGAACACA GATAGAAAGA AGGAAAACAA	900
15	GCCTGTATTT TTCCAGCAAA TATAACAAAG AAGCTCTTAG CCCCCCACGA CGTAAAGCCT	960
	TTAAGAAATG GACACCTCCT CGGTACCCCT TTAATCTCGT TCAAGAAACA CTTTTTCATG	1020
20	ATCCATGGAA GCTTCTCATC GCTACTATAT TTCTCAATCG GACCTCAGGC AAAATGGCAA	1080
	TACCTGTGCT TTGGAAGTTT CTGGAGAAGT ATCCTTCAGC TGAGGTAGCA AGAACCGCAG	1140
	ACTGGAGAGA TGTGTCAGAA CTTCTTAAAC CTCTTGGTCT CTACGATCTT CGGGCAAAAA	1200
25	CCATTGTCAA GTTCTCAGAT GAATACCTGA CAAAGCAGTG GAAGTATCCA ATTGAGCTTC	1260
	ATGGGATTGG TGCACCCCTGA AGACCACAAA TTAAATAAAAT ATCATGACTG GCTTTGGGAA	1320
30	AATCATGAAA ATTAAGTCT ATCTTAAACT CTGCAGCTTT CAAGCTCATC TGTTATGCAT	1380
	AGCTTTGCAC TTCAAAAAAG CTTAATTAAAG TACAACCAAC CACCTTTCCA GCCATAGAGA	1440
	TTTTAATTAG CCCAACTAGA AGCCTAGTGT GTGTGCTTTC TTAATGTGTG TGCCAATGGT	1500
35	GGATCTTIGC TACTGAATGT GTTGTGACAT GTTTTGAGAT TTTTTTAAAA TAAATTATTA	1560
	TTTGACAACA ATCCAAAAAA AAAAAAAA AAAAAAAA AAAAAAAA AAAAAAAA AAAAAAAA	1620
	AAAAAAA AAAAAAA	1637
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(2) INFORMATION FOR SEQ ID NO: 179:

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(i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 2911 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:

55	GGTGGTTTTT GTTCTGCAAT AGGCGGCTTA GAGGGAGGGG CTTTTTCGCC TATACCTACT	60
	GTAGCTTCTC CACGTATGGA CCCTAAAGGC TACTGCTGCT ACTACGGGGC TAGACAGTTA	120
	CTGTCTCAGC TCTAGGATGT GCGTTCTTCC ACTAGAAGCT CTTCTGAGGG AGGTAATTAA	180
60	AAAACAGTGG AATGGAAAAA CAGTGCTGTA GTCATCCTGT AATATGCTCC TTGTCAACAA	240

5	TGTATACATT CCTGCTAGGT GCCATATTCA TTGCTTAAAG CTCAAGTCGC ATCTTACTAG TGAAGTATTTC TGCCAATGAA GAAAACAAGT ATGATTATCT TCCAACACT GTGAATGTGT GCTCAGAACT GGTGAAGCTA GTTTCTGTG TGCTTGTGTC ATTCTGTGTT ATAAAGAAAG	300 360 420
10	ATCATCAAAG TAGAAATTIG AAAATGCTT CCTGGAAGGA ATTCTCTGAT TTCATGAAGT GGTCCATTCC TGCCCTTCTT TATTTCTGG ATAACTTGAT TGTCTTCTAT GTCCTGTCCT ATCTTCAACC AGCCATGGCT GTTATCTTCT CAAATTTAG CATTATAACA ACAGCTCTTC	480 540 600
15	TATTCAGGAT AGTGCTGAAG ANGCGTCTAA ACTGGATCCA GTGGGCTTCC CTCCTGACTT TATTTTGTC TATIGTGGCC TTGACTGCCG GGACTAAAAC TTTACAGCAC AACTTGGCAG GACGTGGATT TCATCACGAT GCCTTTTCA GCCCTTCAA TTCCTGCCTT CTTTCAGAA	660 720 780
20	ATGAGTGTCC CAGAAAAGAC AATTGTACAG CAAAGGAATG GACTTTCTT GAAGCTAAAT GGAACACAC AGCCAGAGTT TTCAGTCACA TCCGTCTTGG CATGGGCCAT GTTCTTATTA TAGTCCAGTG TTTTATTCT TCAATGGCTA ATATCTATAA TGAAAAGATA CTGAAGGAAG	840 900 960
25	GGAACCAGCT CACTGAARGC ATCTTCATAC AGAACAGCAA ACTCTATTTC TTTGGCATTC TGTTTAATGG GCTGACTCTG GGCCCTTCAGA GGAGTAACCG TGATCAGATT AAGAACTGTG	1020 1080
30	GATTTTTTA TG GCCCACAGT GCATTTTCAG TAGCCCTTAT TTTTGTAACT GCATTCCAGG GCCTTTCAGT GGCTTTCATT CTGAAGTTCC TGGATAACAT GTTCCATGTC TTGATGGCCC AGGTTACAC TGTCAATTATC ACAACAGTGT CTGTCCTGGT CTTTGACTTC AGGCCCTCCC	1140 1200 1260
35	TGGAATTTT CTTGGAAAGCC CCATCAGTCC TTCTCTCTAT ATTTATTTAT AATGCCAGCA AGCCTCAAGT TCCGGAATAC GCACCTAGGC AAGAAAGGAT CCGAGATCTA AGTGGCAATC	1320 1380
40	TTTGGGACCG TTCCAGTGGG GATGGAGAAG AACTAGAAAG ACTTACCAAA CCCAAGAGTG ATGAGTCAGA TGAAGATACT TTCTAACTGG TACCCACATA GTTTCAGCT CTCTTGAACC	1440 1500
45	TTATTTTCAC ATTTTCAGTG TTTGTAAATAT TTATCTTTTC ACTTTGATAA ACCAGAAATG TTTCTAAATC CTAATATTCT TTGCATATAT CTAGCTACTC CCTAAATGGT TCCATCCAAG GCTTAGAGTA CCCAAAGGCT AAGAAATTCT AAAGAACTGA TACAGGAGTA ACAATATGAA	1560 1620 1680
50	GAATTCACTTA ATATCTCAGT ACTTGATAAA TCAGAAAGTT ATATGTGCAG ATTATTTCC TTGGCCTTCA AGCTTCCAAA AACTTGTAA TAATCATGTT AGCTATAGCT TGTATATACA	1740 1800
55	CATAGAGATC AATTGCCAA ATATTCACAA TCAATGTAGTT CTAGTTACA TGCCAAAGTC TTCCCTTTT AACATTATAA AACCTAGGTT GTCCTTGAA TTTGAGGCC CTAGAGATAG TCATTTGCA AGTAAAGAGC AACGGGACCC TTCTAAAAA CGTTGGGTGA AGGACCTAAA	1860 1920 1980
60	TACCTGGCCA TACCATAGAT TTGGGATGAT GTAGTGTG TGCTGAAGAA	2040

	GCAGTTTCTC AGACACAACA TCTCAGAATT TTAATTTTA GAAATTCATG GGAAATTGGA	2100
5	TTTTTGTAAAT AATCTTTG A TGTTTTAAC ATTGGTCCC TAGTCACCAT AGT TACCACT	2160
	TGTATTTAA GTCATTTAAA CAAGCCACGG TGGGGCTTT TTCTCCTCAG TTTGAGGAGA	2220
	AAAATCTTGA TGTCACTTACT CCTGAATTAT TACATTTGG AGAATAAGAG GGCATTTAT	2280
10	TTTATTAGTT ACTAATTCAA GCTGTGACTA TTGTATATCT TTCCAAGAGT TGAAATGCTG	2340
	GCTTCAGAAT CATAACAGAT TGTCA GTGAA GCTGATGCCT AGGAAC TTTT AAAGGGATCC	2400
	TTTCAAAAGG ATCACCTAGC AAACACATGT TGACTTTAA CTGATGTATG AATATTAATA	2460
15	CTCTAAAAAT AGAAAGACCA GTAATATATA AGTCAC TTTA CAGTGCTACT TCACACTTAA	2520
	AAGTGCATGG TATTTTCAT GGTATTTGC ATGCAGCCAG TTAAC TCTCG TAGATAGAGA	2580
20	AGTCAGGTGA TAGATGATAT TAAAAATTAG CAAACAAAAG TGACTTGCTC AGGGTCATGC	2640
	AGCTGGGTGA TGATAGAAGA GTGGGCTTTA ACTGGCAGGC CTGTATGTTT ACAGACTACC	2700
	ATACTGTAAA TATGAGCTTT ATGGTGTATC TCTCAGAAC TTATACATTT CTGCTCTCCT	2760
25	TTCTCCTAAG TTTCATGCAG ATGAATATAA GGTAATATAC TATTATATAA TTCATTTGTG	2820
	ATATCCACAA TAATATGACT GGCAAGAATT GGTGGAAATT TGTAATTAAA ATAATTATTA	2880
30	AACCTAAAAA AAAAAAAA AAAAACTCGA G	2911

35 (2) INFORMATION FOR SEQ ID NO: 180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 519 base pairs
- (B) TYPE: nucleic acid
- 40 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:

45	GGCACGAGCC CCAGGCCAGC CAGGGCCAGG CCTACTTTGG CCACCCCTAA ATTAGAATGT	60
	GGGGTCAGGG GTCACAGAAA AGCCATTCT CTGACCTAGT GTTGGCGTC CGGGAACTCT	120
50	GTGCCCAACC TTCAGACCCCT GGCA GTCTC ACTGAGGCCA TTGGCCAGA GCCCCCCTAC	180
	CCCCGARACC CCCGGGAGCC GCCTGTTGCC ACGTCCACAC CTGCCACACC CTCTGCCGGG	240
	CCCCAGCCCC TCCCAACCGG GACCGTGCTG GTCCCTGGGG GTCCCTGCCAC ACCTTGCCCTT	300
55	GGGGAGGCAT GGGCCCTCCT CCTCCCACCC TGCCGGCCGT CACTCACCTC TTGCTTCTGG	360
	TCCCCCAGGC CTAGCCCTTG GAAGGAGACA GGAGTCTAGG GAGGCTGAAG CCCACTCCCG	420
60	GGGAGGCCGG TGCTCCTCCA GCCCCAGGGA CAGCAAGGAA AAGAGAAGAG AGCAGAGCAT	480

TTCATGGCTC TAATAAAAAA AAAAAAAA AAAACTCGA

519

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(2) INFORMATION FOR SEQ ID NO: 181:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 968 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:

15	TCCCCCTGGG GCCGGAAAAA GCGGGGTTGG CCTGNCCATT GGTTNTCCAT GCGGCCCCGCC	60
	CATGCCAG TACTAGCCTG CAGTCCCAAT GTAGCCCTC CCTCYTCCMA GAGCCCYTCM	120
20	AACCGCCCG STCANTTGTG ATTCAGGAG GATTTGATGA AGATGTTAAA GCGAAAGTGG	180
	AGAACCTTCT CGGGATTTCC AGCCTGGAAA AAACGGACCC TGTTAGGCAA GCACCCCTGCA	240
25	GCCCTCCCTG TCCCCCTCTT CCCCTCCCT TCYCCCGCCC GTGGAGACAG CTGTTYTCAG	300
	CAGGGCTCTC CGCAGGGAGG GGGCCGGCTC CTTCCCTGGC AGCAACATCC TTGCCCTTGT	360
	CACACAAGTC AGCCTCCATC TGCGCAGCTC TGTGGATGCG CTGCTGGAGG GCAACAGGTA	420
30	TGTCACTGGC TGGTTCAGCC CCTACCACCG CCAGCGGAAG CTCATCCACC CGGTCATGGT	480
	TCAGCACATC CAGCCCGCAG CGCTCAGCCT CCTGGCACAG TGGAGCACCC TCGTGCAGGA	540
35	GCTGGAGGCT GCCCTGCAGC TGGCTTCTA CCCGGATGCC GTGGAGGAGT GGCTGGAGGA	600
	AAACGTGCAC CCCAGCCTGC AGCGGCTGCA ARCTCTGCTG CAGGACCTCA GCGAGGTGTC	660
	TGCCCCCCCCG CTGCCACCCA CCAGCCCTGG CAGGGACGTT GCTCAGGACC CCTGAGGGGA	720
40	GAGCTCATGC CAGGGGGCTC CTGCTGGAGG CTGGGGGGGC TCTGCWYTKY CWWWTGGCCT	780
	GGGCAATACG GCCCACGTGG GCGTCGTGCC CTCTGGCCCA GCAGTGTCTT GCCCACACTC	840
45	AGTTCTGAG GGCCTGGGC AGCCCTGGG GGAGAGACTA GAAAACACAG AAGGAAGCAG	900
	CACAGGGAGA CCCGCTTGT GATCTGCATG TGTGACACTG ATTCTTTGGA AATAAAGAGT	960
	GGAAGCTG	968

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(2) INFORMATION FOR SEQ ID NO: 182:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1128 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:

	TGTAAAAGTT ATCAGTAATC CTAATTCTTT TCCTGGGTTT TCCTTTGTC ACTTATTAAT	60
5	CAGTTTTGAGA AAGGACGAAT GAATTTAGAG ATGTACTCTG GAGCAGTATC ATGTTAAACC	120
	AGGGTATAT TAGAAAAATC ATCCTCATAA TCATTCTGGG AAGTTTTCC TCCCCAAAAA	180
10	AAGCCATCCT GATGGGTTTT CAAAACCAGA AAAAGCTCT TAATGAGGAA CAGACCACTG	240
	GAGTACCCAT GAGCATCTCA GAAAAACTGA GACCCTCGAG AAGCCTTGAT TTCGTGCAAC	300
	CCCCAAGGTT TCAGAGCCAG CAGCCCAGTG CTGTGGTTGA CAGACGTGGT TTTKTGGRGA	360
15	AAGCAGCCAG AGGCCAGGAA TTTTCAGAGT CGTGAGTCAC GRTYTCCCAC CCAAGATTAG	420
	AGCCAMAGATT AGCCATACTG AGATTTGGTA AAATCATTCT GTCTAAGCAA TGGAGGTGTG	480
20	TGCAACAGTG CAGTGCCTGT TCACAGGGGA TGCAGGCAGA TCSYGGTTT AGGATGGGGR	540
	AGGCCACCGC ACCCCCCYTC AYTGCTCTGC ACCTGCTCCC TCACGTGGAC ACTGTCCACA	600
	ACTGTGGCTC TCACAGGACA GTTGCAGAAG GAGCTCATAT CTTATTGGAG ATAGGGGGTC	660
25	GTACAGGTGA CATTGATGAG CAGTGTGAGC CGGGTGACAT GGGGGTGTCA ACCCAGCATC	720
	TGTCCAGGAG CTCCCTCTGC AGCGGCTCTG GCAGGTGGCC TGAGGCTCCT TTTTGAGAGA	780
	GAACGTGTTG GCGCTCCTGT CTCCCTCTCCT CTGATCTGTT CTTCTTGGAA ACACCACCCA	840
30	AGAACGTCAC CTCCCTCCATC AGATTTGAG CTCCCTGGAGG GCAGGAGCTG TGTCCCTCTA	900
	TTCATCTTCC TATCCCCAGA ACCTTGACACA GATCCTGGAA TGTGGTAGGT GCTCAGTAAA	960
35	TGTGTGTTGA ATAAATGAAT GAATGAATGA ACAAAATGAAT GAATTTGCTT ACTTCAAGGC	1020
	AAAAGAACCA TGAAACTGTA TTTTGAGTTT CTATGTTATA GCAGTCAGCA AATCCTATTA	1080
	AATACTTTGT GTTTCAGC AAAAAAAAAA AAAAAAAAAA AAACCTCGA	1128
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(2) INFORMATION FOR SEQ ID NO: 183:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:

	CCGGGGCGTC TGACCTCATG GCGTAGAGCC TAGAACAGC GCAGGCTCCC AGCCGAGTCC	60
55	GTTATGGCCG CTGCCGTCCC GAAGAGGATG AGGGGGCCAG CACAAGCGAA ACTGCTGCC	120
	GGGTGGCCA TCCAAGCCCT TGTGGGGTTG GCGGGGCCGC TGTCCTTGGC GCTCCTGCTT	180
60	GTGTCCGCCG CTCTATCCAG TGTGTATCA CGGACTGATT CACCGAGCCC AACCGTACTC	240

	AACTCACATA TTTCTACCCC AAATGTGAAT GCTTTAACAC ATGAAAACCA AACCAAACCT	300
5	TCTATTTCCC AAATCAGCAC CACCCCTCCCT CCCACGACGA GTACCAAGAA AAGTGGAGGA	360
	GCATCTGTGG TCCCTCATCC CTCGCCTACT CCTCTGTCTC AAGAGGAAGC TGATAACAAT	420
	GAAGATCCTA GTATAGAGGA GGAGGATCTT CTCATGCTGA ACAGTTCTCC ATCCACAGCC	480
10	AAAGACACTC TAGACAATGG CGATTATGGA GAACCAGACT ATGACTGGAC CACGGGCCCC	540
	AGGGACGACG ACCGAGTCTGA TGACACCTTG GAAGAAAACA GGGGTTACAT GGAAATTGAA	600
15	CAGTCAGTGA AATCTTTAA GATGCCATCC TCAAATATAG AAGAGGAAGA CAGCCATTTC	660
	TTTTTCATC TTATTATTT TGCTTTTGCG ATTGCTGTG TTTACATTAC ATATCACAAC	720
	AAAAGGAAGA TTTTTCTTCT GGTCAAAAGC AGGAAATGGC GTGATGGCCT TTGTTCCAAA	780
20	ACAGTGGAAAT ACCATCGCCT AGATCAGAAT GTTAATGAGG CAATGCCCTTC TTTGAAGATT	840
	ACCAATGATT ATATTTTTA AAGCACTGTG ATTTGAATTG GCTTATGTAA TTTTATTTGC	900
25	TTGACTTTTT ATATGATATT GTGCAAATGT TTGCGATAGG CAATGGTAC TTAAATGAGA	960
	GGTGAGTCTC TCTTTGCCT TGGTGCTTG GAAATTAAT GTCACAAACG AGTATATAAT	1020
	TTTTTATCTG TACTTTAGA GCTGAGTTA ATCAGGTGTC CAAAATGTGA GTAAACATT	1080
30	ACCTTATATT TACACTGTTA GTTTTATTG TTTAGATT ATTATGCTTC TTCTGGAAGT	1140
	ATTAGTGATG CTACTTTAA AAGATCCAA ACTTGAACT AAATCTGAC ATATCTGTTA	1200
35	CTGCTGACTC ACATTCAATC TCCGCCATTC AAATACTATT TTTTATCCAC ATTTTTTTTT	1260
	GTTCCAAAC TGTAATGTAC AAGGATATGT GTGATAATGC TTTGGATTG AGTAATATTT	1320
	TTTTTCTTC CAAGAAAAGT GCTTTGGATA TTTTAGATA ATTTAACAT AATTTAGGAT	1380
40	AATGATATTG CTCAATCTGA CCACAATTG AGTAAAACA TTAAATGTGT CAGAAATCTT	1440
	GGCAACAGAG ACTCTGCAGC TTGCAGTGGG CATAGATAAA ATGTTACAGA GATACTATT	1500
45	TTTGGTTGG AATTACTATA TTAAATTTAG AAGCAGAAAC TGGTAAAATG TTAAATACAT	1560
	GTACAATTGC TTTTAGTTAG CAATTGATTG TAGCATGGGT TCCTCCAAGG TTTCAAGCAA	1620
	TGGCAGAGT TTAAATTTAT ATCAGATTG TTTACTTCGT TTAAATTTT ACAGTAAATT	1680
50	TGAATAAAC TTAGGGTCA TTATCACTTA AATAATACTG TACCTAGGTC TTCTAAATTA	1740
	AAATTATACC TGAATGAAGT TGTGTTGATA CATAAAGGAT ATTGTGTAC ATTACCTTT	1800
55	TTTCCCCCAC ACTTGTTTC TTTGTTTG TTTTTATGG CAACTGGAAA GTATTACTA	1860
	TGGGATTTCAT TTATGTCTGT CTTTCTATCA TAAAGAATTG ATCAATATGT AAATATGTGA	1920
	TTTGAACCAT GGTGACTTA CAAGTGTAC TACAGTTTT TAGAAAACAT AGCCCTAATA	1980
60	TATGTTAACGC AGGACCCGGG TGAGCCAGTG GGCTTGCCT TTATGTAGAG CTGGAAGAAG	2040

5	GGCGTCCATC CTGTCTCTTG GGCGGACAGT GTACTTCCT AATAGGAAG GGAACCACAA	2100
	TGGAAATACC CCTGAACCGT TTTATTGCAG TAATTTTTT CATATCTGAA ACTATTATT	2160
	AATATTTGA ATAAGATTTT AAAAAATAAA TGGCAAAGAT ATAAATCTAA AAAAAAAA	2220
	AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAA AAAAAA	2276

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(2) INFORMATION FOR SEQ ID NO: 184:

15 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2500 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

25	TCCAAGCTAC GCCACTCGGG CTGGGGCGTT GGGAGCGGGA GTGCAGAGCG TGGTCGTGGC	60
	GGCGCGGTG AGAACAGCGA GGCGKAGGAG GGGGTGCCAT GGCCGGGCAG CAGTTCCAGT	120
	ACGATGACAG TGGGAACACC TTCTTCTACT TCCTCACCTC CTTCGTGGGG CTCATCGTGA	180
30	TCCCGGCGAC ATACTACCTC TGGCCCCGAG ATCAGAACATGC CGAGCAAATT CGATTAAAGA	240
	ATATCAGAAA AGTATATGGA AGGTGTATGT GGTACGTTTA CGGTTATTAA AACCCAGCC	300
	AAATATTATT CCTACAGTAA AGAAAATAGT TCTGCTTGCA GGATGGGCAT TGTTCTTATT	360
35	CCTGCAATAT AAAGTTTCCA AAACAGACCG AGAACATCAA GAATACAATC CTTATGAAGT	420
	ATTAATTTG GATCCTGGAG CCAQAGTAGC AGAAAATTAA AACAAATATC GTTTGCTGTC	480
	ACTTAAATAT CATCCAGATA AAGGAGGTGA TGAGGTTATG TTCATGAGGA TAGCAAAGC	540
40	TTATGCTGCT TTAACGGATG AAGAGTCCCG GAAAATTGG GAAGAATTG GAAATCCAGA	600
	TGGGCCTCAA GCCACAAGCT TTGGAATTGC CCTGCCAGCT TGGATAGTTG ACCAGAAAA	660
45	TTCAATTCTG GTTTTACTTG TATATGGATT GGCAATTATG GTTATCCCTC CAGTTGTTGT	720
	GGGCTCTGG TGGTATCGCT CAATACGCTA TAGGGAGAC CAGATTCTAA TACGSACAAAC	780
	ACAGATTTAT ACATACTTTG TTTATAAAAC CCGAAATATG GATATGAAAC GTCTTATCAT	840
50	GGTTTTGGST GGAGCTTCTG AATTGATCC TCAGTATAAT AAAGATGCCA CAAGCAGACC	900
	AACGGATAAT ATTCTAATAC CACAGCTAAT CAGAGAAATT GGCAAGCATTA ATTAAAGAA	960
55	GAATGAGCCT CCACTTACCT GCCCATATAG CCTGAAGGCC AGAGTTCTTT TACTGTCTCA	1020
	TCTTGCTAGA ATGAAAATTC CTGAGACCCCT TGAAGAAGAT CAGCAATTCA TGCTAAAAAA	1080
60	GTGTCCCTGCC CTACTTCAAG AAATGGTTAA TGTAATCTGC CAACTAATAG TAATGGCCCG	1140

	GAACCGTGA GAAAGGGAGT TTTCGTGCTCC AACCTTGCGA TCCCTAGAAA ACTGCATGAA	1200
	GCTTTCTCAG ATGGCCGTTTC AGGGACTTCA GCAATTAAAG TCTCCCTTC TGAGCTCCC	1260
5	TCATATTGAA GAGGACAATC TTAGACGGGT TTCTAATCAT AAGAAGTATA AAAATTAAAC	1320
	TATCCAGGAT TTGGTGAGTT TAAAAGAAC AGATCGTCAC ACTCTACTGC ACTTCCTTGA	1380
	AGATGAAAAA TATGAAGAGG TTATGGCTGT CCTTGGAGT TTTCCATATG TGACCATGGA	1440
10	TATAAAATCA CAGGTGTTAG ATGATGAAGA TAGCAACAAC ATCACAGTAG GATCCTTAGT	1500
	TACAGTGTG GTTAAGTTGA CAAGGAAAC AATGGCTGAA GTATTGAAA AGGAGCAGTC	1560
15	CATCTGTGCT GCAGAGGAAC AGCCAGCAGA AGATGGCAG GGTGAAACTA ACAAGAACAG	1620
	GACAAAAGGA GGATGGCAAC AGAAGAGTAA AGGACCAAG AAAACTGCTA AATCAAAAAA	1680
	AAAGAAACCT TTAAAAAAA AACCTACACC TGTGCTATTA CCACAGTCAA AGCAACAGAA	1740
20	ACAAAAGCAG GCAAATGGAG TCGTTGGAA TGAAGCTGCA GTAAAGGAAG ATGAAGAAGA	1800
	AGTTTCAGAT AAGGGCAGTG ATTCTGAAGA AGAAGAAACC AATAGAGATT CCCAAAGTGA	1860
25	GAAAGATGAT GGTAGTGACA GAGACTCTGA TAGAGAGCA GATGAAAAAC AAAACAAAGA	1920
	TGATGAAGCA GAGTGGCAAG AATTACAACA AAGCATAACAG CGAAAAGAGA GAGCTCTATT	1980
	GGAAACCAAA TCAAAATAA CACATCCTGT GTATAGCCTT TACTTTCCTG AGGAAAAACA	2040
30	AGAATGGTGG TGGCTTTACA TTGCAGATAG GAAGGAGCAG ACATTAATAT CCATGCCATA	2100
	TCATGTGTG ACGCTGAAAG ATACAGAGGA GGTAGAGCTG AAGTTTCCTG CACCAGGCAA	2160
35	GCCTGGAAAT TATCAGTATA CTGTGTTCT GAGATCAGAC TCCTATATGG GTTTGGATCA	2220
	GATTAACCA TTGGAAGTTK GGAAGTTCAT GAGGCTGAAG CCTGTGCCAG AAAATCACCC	2280
	ACAGTGGGAT ACAGCAATAG AGGGGGATGA AGACCAGGAG GACAGTGAGG GCTTTGAAGA	2340
40	TAGCTTTGAG GGAGGAAGAG GGAGGGAGGA AGGAAGGTGG TGGACTTAAG GCAGTTACTC	2400
	TGGAATGGGA CCCACAGTGT TTTGCACCAT ATTTTGGCAA TTTTTTTTGC CCGTTTTING	2460
45	GAAGTGTGTTT CCNTNAANCC CAGGAACCAC TACAGAACCG	2500

50 (2) INFORMATION FOR SEQ ID NO: 185:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

60	CTTCCGGTTTC TCCGGGCAGC TGCCACTGCT GTAGCTCTG CCACCTGCCA CGACCGGGCC	60
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5	TCTCCCTGGC GTTTGGTCAC CTCTGCTTCA TTCTCCACCG CGCCTATGGT CCCTCTTGGA	120
	GCCAGCGTGG CGGGCCTGGC GGCTCCCGGG TGGTGAGAGA GCGGTCCGGG AACGATGAAG	180
10	GCCTCGCAGT CCTGCTGCTG TCTCAGCCAC CTCTTGGCTT CCGTCCTCCT CCTGCTGTTG	240
	CTGCCTGAAC TAAGCGGGYC CCTGGMAGTC CTGCTGCAGG CAGCCGAGGC CGGCCAGGT	300
15	CTTGGGCCTC CTGACCCCTAG ACCACGGACA TTACCGCCGC TGCCACCGGG CCCTACCCCT	360
	GCCCAGCAGC CGGGCCGTGG TCTGGCTGAA GCTGCGGGGC CGGGGGGCTC CGAGGGAGGC	420
20	AATGGCAGCA ACCCTGTGGC CGGGCTTGAG ACCGACGATC ACGGAGGGAA GGCCGGGGAA	480
	GGCTCGGTGG GTGGCGGCCT TGCTGTGAGC CCCAACCTG GCGACAAGCC CATGACCCAG	540
25	CGGGCCCTGA CCGTGTGAT GGTGGTGAGC GGCGCGGTGC TGGTGTACTT CGTGGTCAGG	600
	ACGGTCAGGA TGAGAAGAAG AAACCGAAAG ACTAGGAGAT ATGGAGTTTT GGACACTAAC	660
	ATAGAAAATA TGGAATTGAC ACCTTTAGAA CAGGATGATG AGGATGATGA CAACACGTTG	720
30	TTTGATGCCA ATCATCCTCG AAGATAAGAA TGTGCCTTT GATGAAAGAA CTTTATCTTT	780
	CTACAATGAA GAGTGGATT TCTATGTTA AGGAATAAGA AGCCACTATA TCAATGTTGG	840
	GGGGTATTT AAGTTACATA TATTTTAACA ACCTTTAATT TGCTGTTGCA ATAAATACCG	900
35	TATCCTTTA TTATATCTTT ATATGTATAG AAGTACTCTR TTAATGGGCT CAGAGATGTT	960
	GGGGATAAAAG TATACTGTAA TAATTTATCT GTTGTAAAAT TACTATAAAA CGGTGTTTC	1020
	TGATCGGTTT TTGTTTCCTG CTTACCATAT GATTGAAAT TGTGTTATGT ATTAATCAGT	1080
40	TAATGCTAAT TATTTTGCT GATGTCATAT GTAAAGAGC TATAAATTCC AACAAACCAAC	1140
	TGGTGTGTA AAATAATTAA AAATTTCTT TACTGAAAGG TATTTCCCAT TTTTGTGGGG	1200
	AAAAGAAGCC AAATTTATTA CTTTGTGTTG GGGTTTTAA AATATTAAGA AATGTCTAAG	1260
45	TTATTGTTTG CAAAACAATA AATATGATT TAAATTCTCT TAAAAAAA AAAAAAAACC	1320
	CGGGGGGGGG GCCCGGN	1337

50 (2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 941 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

60 GGCACGAGCC TGGACGCAGC AGCCACCGCC GCGTCCCTCT CTCCACGAGG CTGCCGGCTT

AGGACCCCCA GCTCCGACAT GTGCCCTCT GTGCCCTGT GTCTTCAC CATCGTGGC	120
CTGATTCTCC CCACCAAGAGG ACAGACGTTG AAAGATACCA CGTCCAGTTC TTCAGCAGAC	180
5 TCAACTATCA TGGACATTCA GGTCGGACA CGAGCCCCAG ATGCAGTCTA CACAGAACTC	240
CAGCCCACCT CTCCAACCCC AACCTGGCCT GCTGATGAAA CACCACAACC CCAGACCCAG	300
10 ACCCAGCAAC TGGAAAGAAC GGATGGGCT CTAGTGACAG ATCCAGAGAC ACACAAGAGC	360
ACCAAAGCAG CTCATCCCAC TGATGACACC ACGACGCTCT CTGAGAGACC ATCCCCAAGC	420
ACAGACGTCC AGACAGACCC CCAGACCCCTC AAGCCATCTG GTTTTCATGA GGATGACCC	480
15 TTCTTCTATG ATGAACACAC CCTCCGGAAA CGGGGCTGT TGGTCGCAGC TGTGCTGTC	540
ATCACAGGCA TCATCATCCT CACCAGTGGC AAGTGCAGGC AGCTGTCCCG GTTATGCCGG	600
20 AATCATTGCA GGTGAGTCCA TCAGAAACAG GAGCTGACAA CCYGCTGGC ACCCGAAGAC	660
CAAGCCCCCT GCCAGCTCAC CGTGCCAGC CTCTGCATC CCCTCGAAGA GCCTGGCCAG	720
AGAGGGAAAGA CACAGATGAT GAAGCTGGAG CCAGGGCTGC CGGTCCGAGT CTCTPACCTC	780
25 CCCCCAACCT GCCCGCCCT GAAGGCTACC TGGCCCTTG GGGGCTGTCC CTCAAGTTAT	840
CTCCTCTGYT AAGACAAAAA GTAAAGCACT GTGGTCTTTG CAAAAAAA AAAAAAAA	900
30 AAAAAAAA AAAAAAAA AAAAAAAA AAAAAACTCG A	941

(2) INFORMATION FOR SEQ ID NO: 187:

35

(i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 654 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

45

GAATTGGCA CGAGGCAGCT TGTGTTTAA AGGAGGTGTT CAAAGCATGT CTGAGCAGAG	60
ACTTTTGGGC TCTGTTTAA TTAATACTTT AAAATAATTG ATATTTAAA TATCARATGT	120
TTCCATAAAAG AGGAGGATGT TTAAATGCCT CCAGACTACA TTCTTTTTA TTSCTTGATT	180
50 TTACCTGGGA GTCCAAAGTT CAATTCCAT AAAGCAAGCG TTTTATTTGT CACTTTCAAT	240
ATACATCCGA TTGCCATGCT TAAGATGCAA TATGGGCTGC GGAAATAGGT TAACCCACAG	300
GCTCCCAGGG CCCAGTGTAG AAGGTGAGAG ATTCTGTAA AATGATTCAA ATAAAAGGAA	360
55 GACCCCTGGCC GGGTGCCGTA RCTCACCCCT GTAAATCCAG CACTTTGGGA GGCGAAGCG	420
AGTGGATGAC GAGGTTAGGA GTTGGAGACC AGCCTGGCCA ACATCGTGAA ACCCCGTCTC	480
60 TACTAAAAAT ACAAAAATTA GCCGGGCATG GTGGCAGGCA CCTGTAATCC TAGCTAGTTG	540

GGAGGCTGAG GCAGGAGAAT CGTTTGAATC TGGGAGTTGG AGGTTGTCAG TGAGCTGAGA 600
 TCGCGCCACA GCACTCCAGC CTGGGTGACA GGCGAGACT CTGTCTAAA NAGA 654

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(2) INFORMATION FOR SEQ ID NO: 188:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1848 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

20 GAAACTGGAC CGGAGAACCG GACCGAAGCG AAGCGGAAGC CCGGAATGAG GCCGGACTGG 60
 AAAGCCGGAG CGGGGCCAGG CGGGCCTCCC CAAAAGCCTG CCCCTTCATC CCAGCGGAAA 120
 CCGCCGGCCC GGCGGAGCGC GGCGGCCGCT GCGATTGCAG TCGGGCGGC GGAGGAAGAG 180
 25 AGACGGCTCC GGCAGCGGAA CCGCCTGAGG CTGGAGGAGG ACAAAACCGGC CGTGGAGCGG 240
 TGCTTGGAGG AGCTGGCTT CGGCACGTC GAGAACGACG AGGACGCGTT GCTGGCGCGT 300
 CTGCGAGGCC CGAGGGTTCA AGAACATGAA GACTCGGGTG ACTCAGAACT GGAGAATGAA 360
 30 GCAAAAGGTA ATTTTCCACC TCAAAAGAAG CCAGTTGGG TGGATGAAGA AGATGAAGAT 420
 GAGGAAATGG TTGACATGAT GAACAATCGG TTTCGGAAGG ATATGATGAA AAATGCTAGT 480
 35 GAAAGTAAAC TTTCGAAAGA CAACCTTAAA AAGAGACTTA AAGAAGAATT CCAACATGCC 540
 ATGGGAGGAG TACCTGCCCTG GGCAGAGACT ACTAACCGGA AAACATCTTC AGATGATGAA 600
 AGTGAAGAGG ATGAAGATGA TTGAGATGAA AGGACTGGGA ATTCATATC CACATCAACT 660
 40 TCTCTTCCAA GAGGCATCTT GAAGATGAAG AACTGCCAGC ATGCGAATGC TGAACGTCCT 720
 ACTGTTGCTC GGATCTCCAT CTGTGCAGTT CCATCCCGGT GCACAGATTG TGATGGTTGC 780
 45 TGGGATTAGA TAATGCTGTA TCACTATTC AGGTTGATGG GAAAACAAAT CCTAAATTC 840
 AGAGCATCTA TTGGAAAGG TTCCAAATCT TTAAGGCTTG TTTTAGTGCT AATGGGAAG 900
 AAGTTTTAGC CACGAGTACC CACAGCAAGG TTCTTTATGT CTATGACATG CTGGCTGGAA 960
 50 AGTTAATTCC TGTGCATCAA GTGAGAGGTT TGAAAGAGAA GATAGTGAGG AGCTTTGAAG 1020
 TCTCCCCAGA TGGGTCCCTTC TTGCTCATAA ATGGCATTGC TGATATTG CATTGCTAG 1080
 55 CAATGAAGAC CAAAGAACTG ATTGGAAGCA TGAAAATTAA TGGAAGGGTT GCAGCATCCA 1140
 CATTCTCTTC AGATAGTAAG AAAGTATAAG CCTCTTCGGG GGATGGAGAA GTTTATGTT 1200
 GGGATGTGAA CTCAAGGAAG TGCCCTAACAA GATTTGTTGA TGAAGGCAGT TTATATGGAT 1260

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	TAAGCAATTGC CACATCTAGG AATGGACAGT ATGTTGCTTG TGGTTCTAAT TGTGGAGTGG	1320
	TAAATATATA CAATCAAGAT TCTTGTCTCC AAGAAACAAA CCCAAAGCCA ATAAAAGCTA	1380
5	TAATGAACCTT CGTTACAGGT GTTACTTCTC TGACCTTCAA TCCTACTACA GAATCTTGG	1440
	CAATTGCTTC AGAAAAAAATG AAAGAAGCAG TCAGATTGGT TCATCTTCCCT TCCTGTACAG	1500
	TATTTCAAA CTTCCCAGTC ATTAAAATA AGAATATTC TCATGTTCAT ACCATGGATT	1560
10	TTTCTCCGAG AAGTGGATAC TTTGCCTTGG GGAATGAAAA GGGCAAGGCC CTGATGTATA	1620
	GGTTGCACCA TTACTCAGAC TTCTAAAGAG ACTATTGAA GTCCAGTTGA GTTCACAAGAG	1680
15	AAGCTGTCT TGATATATCA TCTCAGAAAC TTTCCTGAAT ATGTGATAAT ATATGGAAA	1740
	TGATTATAG ATCCAGCTGT GCTTAAGAGC CAGTAATGTC TTAATAAACCA TGTGGCAGCT	1800
	TTTGTGAA AAAAAAAA AAAAAAAA AAAAAAAA AAACTCGA	1848
20		

(2) INFORMATION FOR SEQ ID NO: 189:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1146 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

	AAAAAAAACC CAGGGGAACN TTGGGGGCCG CTTTNNNTTC CCCCTCCAGG CCATTGGGGA	60
35	ATTCTTCAAG TTAATCCTGC TTTGCTCTTG GCCAACAGGG CTTGTAGGGG GGAGAGACCC	120
	AGGATCATCA AGGGGTTCGA GTGCAAGCCT CACTCCCAGC CCTGGCAGGC AGCCCTGTT	180
40	GAGAAGACGC GGCTACTCTG TGGGGCGACG CTCATGCCCC CCAGATGGCT CCTGACAGCA	240
	GCCCAC TGCC TCAAGCCCCG CTACATAGTT CACCTGGGC AGCACAAACCT CCAGAAGGAG	300
	GAGGGCTGTG AGCAGACCCG GACAGCCACT GAGTCTTCC CCCACCCCGG CTTCAACAAC	360
45	AGCCTCCCCA ACAAAAGACCA CCGCAATGAC ATCATGCTGG TGAAGATGCC ATGCCAGTC	420
	TCCATCACCT GGGCTGTGCG ACCCCTCAC CTCTCTCAC GCTGTGTAC TGCTGGCACC	480
50	AGCTGYCTCA TTTCCGGCTG GGGCAGMACG TCCAGCCCC AGTTACGCCT GCCTCACACC	540
	TTGSGATGCG CCAACATCAC CATCATTGAG CACCAGAAAGT GTGAGAACGC CTACCCGGC	600
	AACATCACAG ACACCATGGT GTGTGCCAGC GTGCAGGAAG GGGGCAAGGA CTCCGCCAG	660
55	GGTGACTCCG GGGGCCCTCT GGTCTGTAAAC CAGTCTCTTC AAGGCATTAT CTCCGGGC	720
	CAGGATCCGT GTGCGATCAC CCGAAAGCCT GGTGTCTACA CGAAAGTCTG CAAATATGTG	780
60	GACTGGATCC AGGAGACGAT GAAGAACAT TAGACTGGAC CCACCCACCA CAGCCCATCA	840

5	CCCTCCATT CCACCTGGTG TTTGGTTCCCT GTTCACCTCTG TTAATAAGAA ACCCTAAGCC	900
	AAGACCCCTCT ACAGAACATTC TTTGGGGCTC CTGGACTACA GGAGATGCTG TCACTTAATA	960
	ATCAACCTGG GGTTCGAAAT CAGTGAGACC TGGATTCAAA TTCTGCCTTG AAATATTGTG	1020
	ACTCTGGAA TGACAAACACC TGGTTTGTTC TCTGTGTAT CCCCAGCCCC AAAGACAGCT	1080
10	CCTGCCATA TATCAAGGTT TCAATAAATA TTTGCTAAAT GAAAAARAAA AAAAAAAAAAA	1140
	ACTCGA	1146

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(2) INFORMATION FOR SEQ ID NO: 190:

20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 906 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:	
	ACTCCCTCAC CCAGGTCCCA GCCCTGGAA CCACCTACCG TGAGCCCTTT TGCAGATATA	60
30	GACTCATTTC ATCCTCAGAT GGTCTTCAA GGTAGGTACT TTAGTCCCAT TTTAGAGATG	120
	AGACGATTGA GGCCAGAGGG GTGNNGTAAC TTGCCTGGGG GCTCACGAGC ACAAAAGGAG	180
	CCGAGGCAGG ATCTGACCCCT TGTTCTCTGG CCTCACTGCC CTCACTTGC CATGACCCGA	240
35	AGTTATGTCC CTACAAAGCA ATGCATGGTC CAAGGYCTTT TTTATTGTAT TTTTATTTTT	300
	AAGGGTCTG TTCAAAACTG GTGTGAGCTC TGAGGAGTCC TGAACCCCTGG GTGCAGCATC	360
	CTAGCATCCT GGGAGTCCTT TTCTGCCAC ACTGAGCTGG GCTCCTCGAG GGGTGGGGCT	420
40	GCTGTCCCTG GAAGCCTGGC AGCAGCACTG TATCGGGTTG GCTGAAGCTG ARGCCGTGG	480
	GGTGCAGGGC TCCMGGAAATC CCCGTTGGC TGAAGGGTT CCCTGTAGCC MGGGATGTTT	540
45	ATGAGGTCTC TCTGATGCC CAGGCGCAGG ACATGTGTGC GGGTGGAGAA AAGCAGGCC	600
	TTTCAGTGCC AGCTCCACTC AATTCTATG TGGACCAAGA ACGATAAACT TAAAAAATTT	660
	TTTTTCTAA GGTATCTTCA GAATATGGTG TATTTTATG TGGAAAAGAA AAGTTATGAA	720
50	GGCAGCTGTT ACTTTAAGAG AAAATTCACT AAAAGTCCTC GAGGTATGAA GATGACGGCG	780
	TGCTTCTCAA TCATTTGGC ATAACTTGAT TGTGGCTGTA ATTTTTTTTT TTTTTTTGT	840
55	CAAGCATGTC AGACAATAAA GTCTTTGTA AAAGRGAAGA AAAAAAAAAA AAAAAAAAAA	900
	ACTCGA	906

(2) INFORMATION FOR SEQ ID NO: 191:

(i) SEQUENCE CHARACTERISTICS:

5 (A) LENGTH: 1941 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

CTTCAGCTGA AGCCCAGGGA CCCCTTTCC ACCCTGGCC CCAATGCCGT CCTTTCCCCG	60
CAGAGACTGG TCTTGAAAC CCTCAGCAAA CTCAGCATCC AGGACAACAA TGTGGACCTG	120
15 ATTCTGGCCA CACCCCCCTT CAGCCGCTG GAGAAGTTGT ATAGCACTAT GGTGCGCTTC	180
CTCAGTGACC GAAAGAACCC GGTGTGCCGG AGATGGCTGT CGTACTGCTG CCCAACCTGG	240
20 CTCAGGGGA CAGCCTGGCA GCTCGTGCCA TTGCAGTGCA GAAGGGCAGT ATCGGCAACC	300
TCCTGGGCTT CCTAGAGGAC AGCCTTGCCG CCACACAGTT CCAGCAGAGC CAGGCCAGCC	360
25 TCCTCCACAT GCAGAACCCA CCCTTTGAGC CAAYTAGTGT GGACATGATG CGGGGGCTG	420
CCCGCGCGCT GCTTGCGCTTG GCCAAGGTGG ACGAGAACCA CTCAGAGTTT ACTCTGTACG	480
AATCACGGCT GTTGGACATC TCGGTATCAC CGTTGATGAA CTCAKTGGTT TCACAAGTCA	540
30 TTTGTGATGT ACTGTTTTG NATTGGCCAG TCATGACAGC CGTGGGACAC CTCCCCCCCC	600
CGTGTGTGTG TCGGTGTGTG GAGAACTTAG AAACTGACTG TTGCCCTTTA TTTATGCAA	660
35 ACCACCTCAG AATCCAGTTT ACCCTGTGCT GTCCAGCTTC TCCCTGGGA AAAAGTCTCT	720
CCTGTTTCTC TCTCTCCCTT CCACCTCCCC TCCCTCCATC ACCTCACGCC TTTCTGTCC	780
TTGTCCTCAC CTTACTCCCC TCAAGGACCT ACCCCACCCCT CTTGAAAAG ACAAGCTCT	840
40 GCCTACATAG AAGACTTTTT TTATTTAAC CAAAGTTACT GTTGTITACA GTGAGTTGG	900
GGAAAAAAA TAAAATAAAA ATGGCTTTC CAGTCCTTGC ATCAACGGGA TGCCACATTT	960
CATAACTGTT TTTAATGGTA AAAAAAAA AAAAAAATAC AAAAAAAAT TCTGAAGGAC	1020
45 AAAAAAGGTG ACTGCTGAAC TGTGTGTGGT TTATTGTTGT ACATTACAA TCTTGACAGGA	1080
GCCAAAGAAGT TCGCAGTTGT GAACAGACCC TGTTCACTGG AGAGGCCTGT GCAGTAGAGT	1140
50 GTAGACCCCTT TCATGTACTG TACTGTACAC CTGATACTGT AAACATACTG TAATAATAAT	1200
GTCTCACATG GAAACAGAAA ACGCTGGTC AGCAGCAAGC TGTAGTTTTT AAAAATGTTT	1260
55 TTAGTTAAC CTTGAGGAGA AAAAAAAA AGGCTTTCC CCCAAAGTAT CATGTGTGAA	1320
CCTACAAACAC CCTGACCTCT TTCTCTCCCTC CTTGATTGTA TGAATAACCC TGAGATCACC	1380
TCTTAGAACT GGTTTTAACCC TTTAGCTGCA GCGNCTACGT CNAWCNTGT GTATATATAT	1440
60 GACGTTGTAC ATTGCACATA CCCTTGGATC CCCACAGTTK GGTCTCCCTC CCAGCTACCC	1500

5	CTTTATAGTA TGACGAGTTA ACAAGTTGGT GACCTGCACA AAGCGAGACA CAGCTATTTA	1560
	ATCTCTTGCCT CAGATATCGC CCCTCTTGGT GCGATGCTGT ACAGGTCTCT GTAAAAAGTC	1620
	CTTGCTGTCT CAGCAGCCAA TCAACTTATA GTTTATTTTT TTCTGGGTTT TTGTTTGT	1680
	TTGTTTCTT TCTAATCGAG GTGTGAAAAA GTTCTAGGTT CAGTTGAAGT TCTGATGAAG	1740
10	AAACACAATT GAGATTTTTT CAGTGATAAA ATCTGCATAT TTGTATTTCA ACAATGTAGC	1800
	TAAAACCTGA TGAAATTCC TCCTTTTTT CCTTTTTGG CTAAATGAAT ATCATTATT	1860
	CAGTATGAAA TCTTTATACT ATATGTTCCA CGTGTAAAGA ATAAATGTAC ATTAAATCTT	1920
15	GGTAAGACTT TAAAAAAAAAA A	1941

20 (2) INFORMATION FOR SEQ ID NO: 192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2118 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

30	AAATAATAAT AANAATAAAAT AAAAATWAAG TGCTTAKTGT AACTCAGCGG ACAGGGCTCC	60
	CAGCTGCTCT GGCACGTGGG ACACCYTCCA CCCTGCACAC AACAGGCATG CAAAGAGGAC	120
35	TGGATATGGT GGGTAGAGT GCTTCTGGTG TGTTCACTTT AAGAAAACAT CTGCCAAGAG	180
	AGAAGAGTGC CCAGGAAAGA CCAGGAAAT ACAAGTACAT GGCTGTTCA TACCATATAC	240
	CCCAATTCTT TAAAGCAGCA AAAGGCACCTT TTTTTTCAG GCCAGAGTGA ATCTAAAACA	300
40	AACCTGGCTT TGCTTACAGG GAAGCTGTCC CAGAAGGACT GAGTGATGCC TCTTGTCCC	360
	TAAGGTCTGG AGAGTCTTG CAAGTTCCA ACGACATTTC CAACCAGGTG GGAGAGACCA	420
45	GCAGTTGACG AGACAAGTCA GACCCAAAAA ACGACGCCAA GGTAGTGAGT GGGTGCTAT	480
	TTGGGAGTAG GATGATTGAG GGAAACAGG AAGAAAACC GGTCAAGAAAG TGGCACTTTG	540
	GAAGTGGAAA GCTGTTGCA AATAGCAACT CTGGCTAAAG CGAAAATGTT AATCAAGTAG	600
50	AAAGTAAAAT TCAGGATCTT AGAAGCTCAT CCTTCTGATG AGAACTATTT TTTTTTCGGT	660
	GAAGGAACTA TTATTACTTT AAAAGTGAGG GTAATTACA TATGGGGTGT ATATATTCTA	720
55	AAAATAGTAA TAAAAGTACC TTTTATAAGC AATGTTGTGT GGCTTGTAGA AGAAAGCAGG	780
	GAGGAAAAAA AGGCAGGCCA AACTAGTCTA GGTCTAGGCC CTAAAAATGA GCTTCCTTCC	840
60	CACTTGACTG GAAACGCCA TGTGATTCT AGGCTGAAAA TAGGTAGGAT TTAACGAGTA	900

	ACCTAGTTCC CTTCTGTCTC TGATTTCTGA TCACCTGATG GAGCTGCTAG TAAGAGGGC	960
	CGATCATGCT CCCAGACGAG TCCCTTGGCC TCTTGCTCTC CATCCCAAGC CTGACTCCTT	1020
5	CAGCAGCAGC CCCCTCCTTC TGTGTCCATC TGATGCCAGC AAGCAGGAGC AGTAAGAGGG	1080
	CATCCCATGT TCCAGTTCAC CTTCTATGGG GTGACTARGA GGTTCCCGGT AACTAGGGCA	1140
10	GCCCARGCCC AGCAGGTTGC AAAAGCAGCT GCAAGCTCA GAAACCCACT TCCTCCAACA	1200
	CCAGGGAGGT GGCAGAGAGC CCATCCAAA GCCCACTGGG AGAGGCATAA GATTCTGTGC	1260
	CAGGCCCTCA GGTCCCCCT GTGTCAAGTA GGCTCTGCTA CTGGCCTCTG AAGTAAAGGC	1320
15	AAANACAAAC GGGCAGGGCA GGGTGGCAGG AATAAAAAAC TCTGGACAGA AACCCCTTTA	1380
	ATAAAAGAAA TTCCACCCCT CCCAATCCTT CCATGGAAGG GTGAGACCTT AATGTGATGT	1440
20	AAGAGGAAGG TCTTCTCTGG CTTTCAGGGA AACAGCTGCA GCTGAAACTT AGGGGCCAT	1500
	TCCAGGGCAC TTTTCACCAC AGCCAGTGCA GCCGCTCCAA GTGCCACTGT CAGCCCCATC	1560
	ACTGCCAATT TCACAAAGCG GTTGGTCCTT GGCTTGGTCA GGACATCTTT TGTTCGATCT	1620
25	TCAGGCCCA GAAGTCCCCG AANACCGCTG CCGCAGCACC ATATCAGGCC TCTGCTGGC	1680
	TGATGCCAGC TCAAAGTCCTT TGAAAGTAGA GGCTGCCGTC CTCTCAGCTT GCTGTTGGC	1740
30	AGCGGCCCTCC CGAGCAAGTT CGGATGGGGG AACTGAACA AAAAGGTCTC CTSTCTGCTG	1800
	ATCAGTGTCT CATAGGGCAA GTCCCTGAGGG ATCTGGACA ACAGGTGGTG GACCGAGGCC	1860
	ATGTCACAGT CACAGTCCAG GACTTCCTGC TCGCGATACA ACACAATCAC GGCTGCAAAG	1920
35	TAAATCGGCA TCAGTGGGTG GCAGGCCAGG AAGAAGTCAT ATAACCGCAC GACGTGCCTG	1980
	AACTCAGACA GGACATGCCA AAACCAGGTG ATGAGCCAGC TGAGGGCAA GATGGTCCCT	2040
	ACCTCAGCAC TCTGCATGAA GTCATGGAGC TCTGGATTCA CCTGGTCAAT GATGGGCATC	2100
40	AGATAGTTA ATATATGC	2118

45

(2) INFORMATION FOR SEQ ID NO: 193:

(i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 1538 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 193:

55	CGGGGTTTCGG CCTCTGTGTC A GCAGCCGGGC GGGCCTCGGG CGGGACATGG CAGCCTGTAC	60
	ACCCCGGGCGG CCTGGCCGTG GGCAGCCGCT GGTGGTCCCG GTGCGCTGACT GNGGCCCCGT	120
60	GGCCAAGGCC GCTCTGTGCG CGGGCGNAGC TGGAGCCCTTC TCGCCAGCGT CGACCACGAC	180

	GACGCGGAGG CACCTCTCGT CCCGAAACCG ACCAGAGGGC AAAGTGTGG AGACAGTTGG	240
5	TGTGTTGAG GTGCCAAAC AGAATGGAAA ATATGAGACC GGGCAGCTTT TCCCTTCATAG	300
	CATTTTTGGC TACCGAGGTG TCGTCCTGTT TCCCTGGCAG GCCAGACTGT RTGACCGGGA	360
	TGTGGCTCT GCAGCTCCAG AAAAACAGA GAACCCGTGT GGCCATGGCT CCAAGGGAGT	420
10	GAAAGCAAA ACTCACACTT ACTATCAGGT GCTGATTGAT GCTCGTACT GCCCACATAT	480
	ATCTCAGAGA TCTCAGACAG AAGCTGTGAC CTTCTGGCT AACCATGATG ACAGTCGGGC	540
15	CCTCTATGCC ATCCCAGGCT TGGACTATGT CAGCCATGAA GACATCCTCC CCTACACCTC	600
	CACTGATCAG GTTCCCCTAC AACATGAAC TTTTGAAAGA TTTCTCTGT ATGACCAGAC	660
	AAAAGCACCT CCTTTTGTGG CTCGGGAGAC GCTAAGGGCC TGGCAAGAGA AGAATCACCC	720
20	CTGGCTGGAG CTCTCCGATG TTCATCGGA AACAACTGAG AACATACGTG TCACTGTATC	780
	CCCCTTCTAC ATGGGCATGA GGGAGCCCA GAATTCCCAC GTGTACTGGT GGGCTACTG	840
25	TATCCGTTTG GAGAACCTTG ACAGTGATGT GGTACAGCTC CGGGAGCGGC ACTGGAGGAT	900
	ATTCACTCTC TCTGGCACCT TGGAGACAGT GCGAGGCCGA GGGTAGTGG GCAGGGAAACC	960
	AGTGTATCC AAGGAGCAGC CTGCGTTCCA GTATAGCAGC CACGTCTCGC TGCAGGCTTC	1020
30	CAGTGGCAC ATGTGGGGCA CGTTCCGCTT TGAAAGACCT GATGGCTCCC ACTTTGATGT	1080
	TCGGATTCCCT CCCTTCTCCC TGGAAAGCAA TAAAGATGAG AAGACACCAC CCTCAGGCC	1140
35	TCACTGGTAG GCCAGCTGAG GCCCCAAGTG CCCAGGCTTG GTCAACGGGA AGAACAACTC	1200
	TCATCCCACA ATTGCTGCAG AACTCTCTC TCCCCATCAT GGGCCACAGT GGGTCTCTTA	1260
	ATTTGATTGT GGGGTTCTTT TTGTGGGGAG GGGTGGTATA ACTTTTCTTC AGAAGACCCA	1320
40	TGTGGGACAC CTCCAAGGCT GGCCTCTCA TAAGCCCTGC CTACACCATG TTCCAGTAAA	1380
	CCTCTCCACC AAGGAACGTG GTTCAGCTGC CACAGGCCTG GAGGAGTTTC CTGGCCTGTC	1440
	ACGTGAGGTT TGATCAGTAA ACCAGTGCAS GYTTGGCCAA AAAAAAAAAA AAAAAAAAAA	1500
45	AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAACTCGA	1538

50

(2) INFORMATION FOR SEQ ID NO: 194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1098 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 194:

AGACCCCTGTC	TCAAATAATA	ATAATAATAA	TAATCTTATT	TTGGAGAATA	AAGAGACCTS	60	
TGGATTGAG	GTGCCATTG	GGTAGAAAGA	AAAGACGTTT	ACACCGAGAA	ATAGTCTGTG	120	
5	TTGCCCTGAA	GGAGCAGAGG	GATGCATCGC	TGGAGGTGAC	CTACAGTTGA	AGAAGACTCA	180
TTATGACAGA	CCTTGTCCCTT	CTTCCTTGTG	GAAAGTGT	TTCTGCTGC	TACTGCTCAT	240	
10	GAGACTCTTC	CCCCCTCCCTG	TCCCAGGGAA	CCAAAGGGCT	TTNCIACAC	ACCCTTTCTT	300
NGCCCCCCGC	CTCCCATGTC	TGCTGTGCCT	TTGTACTCAG	CAATTCTTNG	TTTGTCCCA	360	
TTATCTTCCA	GCCGGATACA	GAGTGAATAG	TTAACACAC	TTAGGTCAA	TAGGATCTAA	420	
15	ATTTTTGTTTC	CTGCTCCNGT	GTAAAGAGGC	CAGTGTGTGT	GTGTTGCAAG	CAGCCTTGGA	480
ATAGTAACTC	TTCTCATTTG	TTTGGGATCT	GGCCAMCAAG	TTCCAGAATG	ATACACGGAT	540	
20	CAGTGCAGAA	TTTCATCAGG	CTCTCGGACC	TTAGGGCTGT	TGGAGAAGGC	TTCAGCAGCA	600
GAACGTGATGG	TKAWKGYTCG	TGTTCTCCAT	CCTCAACTTT	CTTTCCTTCG	ATCATAACACA	660	
AGAATACATT	TGGAAGGGCA	AAAAATGAAC	ACTGTTGTT	ATTGCAGCCG	TGTTTTGTGA	720	
25	CACAGATGCA	CAGTCTGCTG	TGAAGACCTT	CTCTCAAGTG	GSATYTGGGA	GTCCATGCCA	780
GATCATGGTG	CTTCATGAGA	GACTGACAGC	TATCAGGGGT	TGTGGCACTT	AGTGAGGACT	840	
30	CTCCTCCCCC	AGTGTGTGCT	GATGACACAT	ACACACCTGA	CAATAGCTTG	AGTCTTCTCT	900
GTTCCTTTTA	CTCTGTAGCC	AACATACACA	TGATTTAAAA	CCCTTTCTAA	ATATCTATCA	960	
TGGTTCATCC	TTGTCCAAAT	GCAGAGTCAG	AGCTATTTGT	ACTTCATTAT	TATTCACAAG	1020	
35	GCGAATAGTT	GGCTTTCTTT	TTGCAAAAT	AATTAAAGTT	TTTGTATGTT	GCAAAAAAAA	1080
AAAAAAA	CTACGTAG					1098	

40

(2) INFORMATION FOR SEQ ID NO: 195:

45	(i) SEQUENCE CHARACTERISTICS:						
(A) LENGTH: 1001 base pairs							
(B) TYPE: nucleic acid							
(C) STRANDEDNESS: double							
(D) TOPOLOGY: linear							
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:						
GAATTGGCA	CGAGATAGCT	TGCATCTCAT	CCCAGTAAAA	CCACATTATTT	ATAACATATC	60	
AACGTATTGA	CAAGGTTGAA	GAGCAAGATT	GTTCTGAGGT	GAGATGCAA	TTTCAAAGGG	120	
55	GTGAGCACTA	ATGTTCCAG	TGATTGTTA	TTTATTGGCT	AGGACATAAT	TACTCTCTTT	180
GAGGTTACAC	ATCTGCCTCC	AGGTTCTGT	GTGCTTGTC	CCTTGGGATC	AGGCCAGGGC	240	
60	AGACTGTGAT	CACTGAGATT	CAAACCTCCA	GARTAATCAG	CAAGAGCTTT	CTAGAGACCA	300

	AGGCCAGGCC TGATCCCTGA GGGATGCATG AGAAGGCTTG GAATCTCAATT CTGCTATGGT	360
5	GGCTCTCTCT TGATCTTCTT GGAGTAGCAA AAACAGCAAT GTGGGCCAA TGTTGTGGCC	420
	TAAATGATCA CAAAGGTAAA TGAGTAAAGG GCTCAGCAGA TGAGTAAGGA GCCTTGTCTT	480
	GAGAAATTAG CACTGGGCTC TGCATTCAAGA AACATGTGAT AAGCATTGCC CATTGCACAT	540
10	TGCCTTTATT GTGTAAGGAC ATGAAATTCC AGTTTGAT AGCTAGTGAT GAATACTGA	600
	AGGAAATTGC AGACATATTT TATTTTATTT TTAATTGACA GATGGAATTG TATATATTAA	660
15	TCATGTACAT AACATGCTT TAAAATATGT ACATTATGGA ATGGCTAAAT CAAACTAACCC	720
	TAGGCATTAT CTCATATAAT TGTCAATTGT GTGGCGAGAA GACTAAAAAT CTACCCCTTC	780
	AGCATTTTA AAGAATACAA TGTGTTTAT TAACAACAGT CACCATTGG TACACTAGAT	840
20	CTCTTGAAC TCTTCCTCTT ATCTAACTGA GATCTTGAA CCTTGATAA CAGCTCCAA	900
	GCCCTTCCCC AACCACGTGCT CCACCCGTGG TAACCACCAT TCTATTCTCA ACTTCCTGGT	960
	AATCACCATT CTAGACACAG GGAAGACTCT CTACCCCTCG A	1001
25		

(2) INFORMATION FOR SEQ ID NO: 196:

30 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- 35 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

40	ATAAAACTGAA ATAGGTCAATG CAAATATAAA ATATTATTTT TAAATTATTTT GTCATAAGAA	60
	ACGATGGTGG CCATATTTTG CTATAATAAT GGAAAAATG TGGTTAGCAT TCTKTGGAAG	120
	GTGGTCATCA GATAGTAGAC ATTTCTAGG ATTTATTTCT ACCTGCATAT GTGGAAATGT	180
45	GTACTACTTT AGATTTATWT AATGGCAGCT AACTCAGAGG CATCAAATG TGCTAATGGT	240
	GTAATATGGC CTTTGTCTTG CTGTYCTGTT TTGTARGCCT TCAATCAAGC ARGGGCAGGG	300
	CCGTACAGTG AACTTGTCTT TTGSCAGACG CCAGCGCTG CCCCTGACCC CGTCTCCACT	360
50	CTCTGTGTCC TGGAGGAGGA GCCCCCTGAT GCYTACCCCTG ATTACACCTTC TGCCTGCCTT	420
	GTACTGAAC TGGAAAGAGCC GTGCAATAAC GGATCTGAAA TCCTTGCTTA CACCATTGAT	480
55	CTAGGAGACA CTAGCATTAC CGTGGGCAAC ACCACCATGC ATGTTATGAA AGATCTCCTT	540
	CCAGAAACCA CCTACCGGTG AGTGCAAGGG AGTAGAAATC TGCATCAGCA CATCAGCACT	600
60	TGGGGATCTA AGTAAACCTC TCGGGGAAAA TGACCAAGTG GATGTCATCT CCCAGCTGTT	660

	TCTAAGAGCC CAGATGTCCA GAGTATTGTC TCACTTCTT CCCTCAGGTC AGAAGACCTG	720
	TGAAAAAGCC ACACTGGTTC AGGGACTCAC CGGACGGTT TGTGTCCACT TAAACCTGCA	780
5	CCGTCTCTAC CCCAGAGTGG ACTCARATCC TCAACTCTC CTCTGACACT TGTGTCTGAG	840
	AATTATAAAA GGGCTTTGGC AATATGTTAG CCCAGGATT TGGCTTCTTC CGGAAATTTG	900
	GCCGACNTA ACAGTGGCTT AAATGATGGT AAAACTTTA AGATTTCTTA ACGGCGGGCA	960
10	TTGGAGATAC GTGACTTTT ATTAAACMAC CTATAGTTGT TTAATGAAAT CTAAAGAATT	1020
	ATCTGGAGCT CAGGGGTTCA ACTGAGGGAA CCGATGTTGA GRATGATGT TTAATGAAATT	1080
15	AATGCCAGGT AACCCGTTGA AATTATCAAACACCTTCC ACGTACCGAGA ACGGACCTCA	1140
	GAGGATAGTT CTGTTATGGA GAAGATGAAA TGGTTTGTAA GTGTAAGGAA TATGGAAAGG	1200
	TGAGCTTAGA TTTGGATAGT AAAACCTCAA GACCCTATT AAAAAGTATT TTAATGAAATGC	1260
20	AGCATAAAATA ATTAAATTCA GTGTTAANAT GCGAAGGCTA GTATATTGAG CTGATGTGA	1320
	AAAGAAACTC ACATTGGGAG AATGCCACCT TTTCTTATA AGATAGCTT GAAATACCA	1380
25	TTTAGACAG ATGGAAATTG AATAGCTTAA GAAAAGGAA ATGTTGATC TTGGGGAAAA	1440
	AAA	1443

30

(2) INFORMATION FOR SEQ ID NO: 197:

	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 1282 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:	
	GAAAAAAAAGTATGACCC AGTAGCTAGG CACCTGTGGC CCCGCCAAGT CGACCATATA	60
	AATTAACGTG CACAGTATCA TCTTAGAAGT GAAAGAAGCC CCTTTATCTT GCGATGCC	120
45	TCTACCACCA CCTACTGACA AAGAACATGG TCTCTCTGG CATGGGAGAA ATGTTCAAGTT	180
	TGCTATGGCT TGTATGIGTC CCCTCAAATT CAACTGTGTC CAATGTGACA GCATCAAGAG	240
50	GTGGGGTCTT TAAGAGATCA CTAGGCCATG AGGGATCTC TTAGGACTGG GATGAAGGCC	300
	CATAATAAAA GAGGTTTCAG GGACCATCTT GCTACTTGC CTTCCTGTAG TGAGAACACA	360
	GCAAGAAAGC CCTAGTCAAC AAGTGCCAGC TCCCTGACT TAGACTTCCC AGCTCCAGA	420
55	ACTGTGAGAA ATACATTTCTT GTTCCCTTACA ATTACCCAG TCTCCCTGTAT TCTGTTATAG	480
	CAGCACAAAA TGAAGATACC ATACCTGAAC ACCTGAACAT TCTTCACAG GTAGTAAATG	540
60	CACTGCTTAA TTCTGGTCTC AGTATTGTTGT GCTTATAG GAAATGAGAA AGGGGAGATC	600

5	AGGGCATAGG ATGAACAAAGT TACTGCTAGA CCTCTCAGCA TCCCACATAT GCGATAGATT	660
	GTATTTTCAT CATTNCTTGT CTCTTCGGAA CCTAACACCA TCTCTATATA GCGCTTATAT	720
10	AGATGTCTAA AAACACCTTA AGTATTTGTC TAGAAATCTG GTGCATTGTC GCGAAGAAC	780
	CAAATTCMA AATAATTICA AAGGGCCTAA AGGACTATTT ATGCAAAAT CATACTTTT	840
15	TAATGGTACT ACCACTCTCA AATTTAAAAT GTCATCTTC GTTCGCTTTC CTGGCTTGG	900
	ATTTATTGCT AAAACCTGGT AAACACTTTA ATCCYTTTCA ATCCATTAAT CACTGCTTT	960
20	GTCCAGAATT ACTCGCAGAC TAATAGTCAC CTGACTTTC CCGCTGGATC CGAATTTGCT	1020
	GTCTAATTCT GGTTACAAAT AAGTAACTGC CAAACTAATC TTTCTAAATA GCGAGACTGA	1080
	TCTCGTCACT CCTTTGCTCA ACAATGTAAA AGCTCCATT GTCTCCCAA TAAACCCAGC	1140
25	TTTCCACTGT GTATACAATA CATCCATGAT CTGTATCCAG CATCATTTG TATTCGCTCA	1200
	CTTTATACAC CACCCCCAT GCCACATCAA ATTAATTAT CCTGATAAAAT GCAATGCAA	1260
	AAAAAAAAAA AAAAAAAACTC GA	1282

30	(2) INFORMATION FOR SEQ ID NO: 198:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 951 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:	
40	ATTTCGGAAC GAGGACTGAA GTGGGAGCGG CGGCAGGGTA GAGAGAGAA GGGGGATCTA	60
	TGTGGTAACT AAAGAATGTT TCTGTTTGT TAATTATTGT GTGTGTGTGG TTTTATTGTT	120
	TGCTTAAGAG AATCAAAAC TGAAAAAAAT GAGAATACAG GAAATGGCTC TTGTTTATTT	180
45	TTTGCTGTG TTTACAGCTT GTTAATGCTC TACTGTCCTT GTTTCAGAG AGATTTGTC	240
	ACTGCCAGC TCGTTTGTG TCCTGAGCCC TATGCCAGC CCACCTTATA ATGATGCCT	300
	GTTTAGATGT TTGATTTGT TCTGTTTGT ATTGTTATCT TAAAGGTGTA TAACTCTGAC	360
50	ATGCCAGACA TCAAATTAAG CTCAAATAA CCTCTCGTTT AATGTTAA ACACCTAATT	420
	TATATTCTAA TTGATCCCAG CCACTGATGC ATGTACTTCA CCTACTTGTG CTAAATAAGC	480
55	ATATTAATT TCCACATCAAG GCCATCAGAT CTTGAGAACC AACAGTTATC TAAAGTCCG	540
	TGTCTACTAA TGTTTCACCT GCATGCAGCC TTCATTAATT TTGAGCAAAT ATATAAGTG	600
60	ATCATTATGT AGTTTCTGGA TTAAAAAAAT TTGTTGTGTA AGTTGCTTTC TAAAGTGCAT	660

GTGGAATTAA	TGGACAGTG	TGCCCTTGT	GTTAGATGTT	AGAGCAAAAG	AAAGGGCTTA	720		
TAGTGTAGT ATTGGAGCAC TTTGAAGATA GATATTTC					GAAAAGATGT	AGGATTAAA	780	
5	AGTTAAATTT	TAAATTTAG	AAAAAGATAT	GATGGCAATT	GGAAATAGTC	ACAATGAAGT	840	
TCTTCATCCA GTAGGTGTTT AACAGTGTAA					TTTTGCCACT	GGTAATGTGT	AAACTGTGAG	900
TGATTACAA TAAATGATTA TGAATTCAAA					AAAAAAAAAA	AAAAAAACTCG A	951	

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(2) INFORMATION FOR SEQ ID NO: 199:

15

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1740 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

TTATTATAAT	AATGATGATG	ATTCCAAGGA	AAAAACCTAC	AGCGAATGTT	CCATTCTAC	60				
25	CCCGCACGCA	GACACTCTCC	CTAACACTGA	TAACCTGAGC	CCCCAGCACT	GGACGGAAGA	120			
ATGCTGGCGT CTCCGTGTGT						ACTGGTTCAAG	GGTTCTGGCC	CCAGCCTTGT	CAGGACCCCC	180
30	TGGTGTCCAG	AGCCCCCACC	CCTCCCGCAA	CAAGCAGCTG	ATGCCCCAGT	GATTCTCTAT	240			
ACATTTTICA CCTCGGCCAA						TATGTCCAGG	AAAATGCTTT	ACTTCTCTTT	TCTTGCCTGG	300
AGCCTTCATT GTTCACCCCTT						ACGTTGCAAT	ATAGGAATTAA	ATGCTACAAA	ATAAAAGTAA	360
35	AGCTTACCTG	AAAAGTGCAT	AGTTGGGGC	AATGGTATCT	ACATCTCCCA	CTGTGGAAA	420			
ACCAGCAAAG CATCAAAACT						CTCAATTCTC	CTGTTACCR	ATGCAGATCT	GAATTATAAG	480
40	ATGTTTATGT	TTGACCATTG	TTTCAACAAT	GGGATTTGT	TACGAATTAT	CCCTTTAACT	540			
GAAACCTCA GTTTTACTGT						TTACATTATT	AGGAAAACAG	GGATATCTTT	TGAATCTAAA	600
AAATTGATGT ACAGCATGTG						ATTTTGAAG	TTTACATGTA	AAATCACAGT	ATAGGTGAAA	660
45	TAACGTTGT	CATATTTGA	GACGTATCCT	GCAGCCATGT	TTTACGTGA	GTGTTTTAGT	720			
CAAAGTACAT GGTAGACAGT						CTTTCACAAAT	AAAAGAAAAA	GGATTTTTTT	TCTTCCAAAT	780
50	GTACATTAT	CAACCTAATG	ATTGATTTTT	TTAAAAAGAG	ATTCGCC	AGTCTGGTTT	840			
ATGAAAGTTC ATTGCCCTAA						ACTGTGCTGA	TTGTTTTAA	TCAAGTTATA	ATTTCCAAC	900
CTAGATCATG TATCTACCAA						CTCTCCTGCA	TTTCCAAAAA	GGCATTGAGC	TTAAATATTA	960
55	GTCTTGCTTA	GACTAGGTAA	TCCACTTACA	TGCTGGCTA	AAGCCATGCC	TTTGAAACTC	1020			
CTTGTTTAAA ACATGATATG						ATTTTGTGG	GCAGTTTCAG	AAAAGAAAAC	AAACAAACAA	1080
60	AAATCGACCC	TTTAATTATT	ACTTGTCAACT	CAACAGATCT	CCCTGCCGTA	CTGCCTTTTC	1140			

	CAGGAACCTT ACTTCAGGGC TGTCCAGATT CCAGTTGTGC CCCGTGTATG TGGATCTAGT	1200
5	TCACAGAGTC TTTGGAAGCC AGCAGTCGTG CCCTCCGTAT ACTGTCCACT CATTATATGT	1260
	AGATTTGGTA TCCTCAGCAG CCAGTGTAA CACCACTGTC ACGTAGTTAN CAGATTTCATC	1320
	TTTTATGTAT TAAAGTAAT CCATACTATG ATTTGGTTT TCCCTGCACC ATTAATTCTG	1380
10	GCATCAGATC AGTTTTGTG TTGTGAAGTT CTACTGTGGT TTGACCCAAG ACCACAACCA	1440
	TGAGACCCCTG AAGTAAAGAT AAGGTACACA TACATTATTT GAGTAACGTG TTCCCTGGGG	1500
15	GCCAATCTGT GTATGCTTT AGAAGTTAC AGAATGCTTT TATTTTGTC TATAACAAAC	1560
	AGTCTGTAT TTATTTCTGT TGATAAACCA TTTGGACAGA GTGAGGACGT TTGCCCTGTT	1620
	ATCTCCTAGT GCTAACAAATA CACTCCAGTC ATGAGCCGGG CTTTACAAAT AAAGCACTTT	1680
20	TGATGACTCA MAAAAAAA AAAAAAAMC YCGGGGGGG GCCGGTAACC CATTNNCCCC	1740

25 (2) INFORMATION FOR SEQ ID NO: 200:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1707 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

35	GCTTATAGAA GGGAGAGGAG CGAACATGGC AGCGCGTTGG CGGTTTTGGT GTGTCTCTGT	60
	GACCATGGTG GTGGCGCTGC TCATCGTTTG CGACGTTCCC TCAGCCTCTG CCCAAAGAAA	120
40	GAAGGAGATG GTGTTATCTG AAAAGGTTAG TCAGCTGATG GAATGGACTA ACAAAAGACC	180
	TGTAATAAGA ATGAATGGAG ACAAGTTCCG TCGCCTTGTG AAAGCCCCAC CGAGAAATTA	240
	CTCCGTTATC GTCATGTTCA CTGCTCTCCA ACTGCATAGA CAGTGTGTG TTTGCAAGCA	300
45	AGCTGATGAA GAATTCCAGA TCCTGGAAA CTCCGGCGA TACTCCAGTG CATTCAACAA	360
	CAGGATATTT TTTCCCATGG TGGATTTGA TGAAGGCTCT GATGTATTTC AGATGCTAAA	420
50	CATGAATTCA GCTCCAACCT TCATCAACCT TCCTGCAAAA GGGAAACCCA AACGGGGTGA	480
	TACATATGAG TTACAGGTGC GGGGTTTTTC AGCTGAGCGAG ATTGCCCGGT GGATGCCGA	540
	CAGAACTGAT GTCAATATTA GAGTGATTAG ACCCCCAAAT TATGCTGGTC CCCTTATGTT	600
55	GGGATTCCTT TTGGCTGTAA TTGGTGGACT TGTGTATCTT CGAAGAGTAA TATGGAATT	660
	CTCTTTAATA AAACCTGGATG GGCTTTGCA GCTTGTGTT TTGTGCTTGC TATGACATCT	720
	GGTCAAATGT GGAACCATAT AAGAGGACCA CCATATGCC ATAAGAATCC CCACACGGGA	780

	CATGTGAATT ATATCCATGG AAGCAGTCAA GCCCAGTTG TAGCTGAAAC ACACATTGTT	840
	CTTCTGTTTA ATGGTGGAGT TACCTTAGGA ATGGTGCTTT TATGTGAACC TGCTACCTCT	900
5	GACATGGATA TTGGAAAGCG AAAGATAATG TGTGTGGCTG GTATTGGACT TGGTGTATTA	960
	TTCTTCAGTT GGATGCTCTC TATTTTTAGA TCTAAATATC ATGGCTACCC ATACAGCTTT	1020
10	CTGATGAGTT AAAAAGGTCC CAGAGATATA TAGACACTGG AGTACTGGAA ATTGAAAAAC	1080
	GAAAATCGTG TGTGTTGAA AAGAAGAATG CAACTGTAT ATTGTGTATT ACCTCTTTTT	1140
	TTCAAGTGAT TTAAATAGTT AATCATTTAA CCAAAGAAGA TGTGTAGTGC CTTAACAAAGC	1200
15	AATCCTCTGT CAAAATCTGA GGTATTTGAA AATAATTATC CTCTAACCT TCTCTTCCCA	1260
	GTGAACCTTA TGGAACATTAA TTTAGTAC AATTAAGTAT ATTATAAAAA TTGTAAAAC	1320
	ACTACTTTGT TTTAGTTAGA ACAAAAGCTCA AAAACTACTTT AGTTAACCTTG GTCATCTGAT	1380
20	TTTATATTGC CTTATCCAAA GATGGGGAAA GTAAGTCCTG ACCAGGTGTT CCCACATATG	1440
	CCTGTTACAG ATAACATACAT TAGGAATTCA TTCTTAGCTT CTTCATCTTT GTGTGGATGT	1500
25	GTATACTTTA CGCATCTTC CTTTGTAGTA GAGAAATTAT GTGTGTCAATG TGGCTTCTG	1560
	AAAATGGAAC ACCATTCTTC AGAGCACACG TCTAGCCCTC AGCAAGACAG TTGTTTCTCC	1620
	TCCTCCCTGC ATATTTCTTA CTGAAATACA GTGCTGTCTA TGATTGTTT TGTTTTGTTG	1680
30	TTTTTYGAG ATCACGYTAC TGGGCTC	1707

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(2) INFORMATION FOR SEQ ID NO: 201:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 779 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:	
45	CTGTCCCCAG TGTTCAGG TAATGACTTG GCACCTCCAGA GAAAGTTCA TRCTGTTGCG	60
	TGTGGTGGCT CCAAGCCAAG CACCTGGCAT GCAGGTCAGC CCTTCGGCAGC GGGCGTGGCG	120
50	TCGTCCCTTT CACAGATGCC ACGTTGCAGC CCCAAGGCCT CACCATTGCG CGTTTTTAG	180
	AAACCCATTT TCTTGGTCAT TTATAAGCT GCTTTATAGA TATCTTGAT CCTGGCATGC	240
	CTTGGTTTCC TCTCCCTTCC CTCTTCCAA TCTGGTTTC CTAACCTCCT CTTGTAGTAA	300
55	TTCTCAACTC AACTCAAAGT CCCAAGAATT TGGATGGTA GGATGCTGTG CGGGGAGCTC	360
	GAGGCTGAGG CATAATCACT GCTTCGGTTC TGCTCATCAG GGGACACGCT CCCTTACTCA	420
60	TGGCAGCCAT GTTTGATTGT CACAGAGCCC CCCGAATACT CTGTCTATAG TGACACACTG	480

	TAGGTGTCAT AAATTTAAG AACCTGCTT TTAAGTACTA TTTATAGGTT TTTCTGTTAT	540
5	ACTTGCAACC TAGTTTAAA ATACATGAGG ATTTATGAA AGCTTTATAC AGACATTAT	600
	AGGAAACTCA TTCTTGATT TTAGGTGCCA TTTAAATTGA TAACACTTAC TTTATAAAAA	660
	GATGCTTTT GTCTGGATAG AGCCTTATAG TTTAAAATAT CTTCATATAT TGCCATTTGA	720
10	TCAAATAAT TTCTTACTTA GAAAAAAA AAAAAAAA AAAAAAAA AAAACTCGA	779

15 (2) INFORMATION FOR SEQ ID NO: 202:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1617 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:

25	GGCACAGCTT TCTGTCCTT CCTCGCTCCC TCTCTTCTC TCCTCCCT GCCTTCCCAG	60
	TGCATAAAAGT CTCTGTCGCT CCCGGAACTT GTTGGCAATG CCTATTTTTT GGCTTTCCCC	120
30	CCGGTTCTCT AAAACTAACTA TTTAAAGGTC TGC GGTCGCA AATGGTTTGA CTAAACGTAG	180
	GATGGGACTT AAGTTGAACG GCAGATATAT TTCACTGATC CTGGCGGTGC AAATAGCGTA	240
	TCTGGTGCAG GCCGTGAGAG CAGCGGGCAA GTGCGATGCG GTCTTCAAGG GCTTTTCGGA	300
35	CTGTTTGCTC AAGCTGGCG ACACATGGCC AACTACCCGC AGCTGGGAC GACAAGACGA	360
	ACATCAAGAC CGTGTGCACA TACTGGGAGG ATTTCCACAG CTGCACGGTC ACAGCCCTTA	420
40	CGGATTGCCA GGAAGGGCG AAAGATATGT GGGATAAAACT GAGAAAAGAA TCCAAAACC	480
	TCAACATCCA AGGCAGCTTA TTCGAACTCT GCGGCAGCGG CAACGGGGCG GCGGGTCCC	540
	TGCTCCCGGC GTTCCCCGTG CTCTGGTGT CTCTCTCGGC AGCTTTAGCG ACCTGGCTTT	600
45	CCPTCTGAGC GTGGGGCCAG CTCCCCCGC GCGCCCACCC ACACTCACTC CATGCTCCCG	660
	GAAATCGAGA GGAAGATCCA TTAGTTCTT GGGGACGTTG TGATTCTCTG TGATGCTGAA	720
50	AACACTCATA TAGGATTGTG GGAAATCCTG ATTCTCTTTT TTATTTCGTT TGATTTCTTG	780
	TGTTTTATTT GCCAAATGTT ACCAATCAGT GAGCAAGCAA GCACAGCCAA AATCGGACCT	840
	CAGTTTTAGT CCGTCTTCAC ACACAAATAA GAAAACGGCA AACCCACCCC ATTTTTAAT	900
55	TTTATTATTA TTAATTTTTT TTGTTGCCA AAGAATCTCA GGAACGGCCC TGGGCACCTA	960
	CTATATTAAT CATGCTAGTA ACATGAAAAA TGATGGCTC CTCCTAATAG GAAGGCGAGG	1020
60	AGAGGAGAAG GCCAGGGAA TGAATTCAAG AGAGATGTCC ACGGACGAAA CATAACGGTA	1080

ATAATTCAAG	CTCACGTCGT	TCTTCCACAG	TATCTTGT	TGATCATTT	CACTGCACAT	1140	
TTCTCCTCAA	GAAAAGCGAA	AGGACAGACT	GTTGGTTG	TGTTTGGAGG	ATAGGAGGGA	1200	
5	GAGAGGGAAG	GGGCTGAGGA	AATCTCTGGG	GTAAGAGTAA	AGGCTTCCAG	AAGACATGCT	1260
	GCTATGGTCA	CTGAGGGTT	AGCTTTATCT	GCTGTTGTTG	ATGCATCCGT	CCAAGTTCAC	1320
10	TGCCTTTATT	TTCCCTCCTC	CCTCTTGT	TAGCTGTTAC	ACACACAGTA	ATACCTGAAT	1380
	ATCCAACGGT	ATAGATCACA	AGGGGGGGAT	GTTAAATGTT	AATCTAAAAT	ATAGCTAAAAA	1440
	AAAGATTTG	ACATAAAAGA	GCCTTGATT	TAAAAAAA	AGAGAGAGAG	ATGTAATT	1500
15	AAAAGTTAT	TATAAATTAA	ATTCAGCAA	AAAAGATTG	CTACAAAGTA	TAGAGAAGTA	1560
	TAAAATAAAA	GTTATTGTT	AAAAAAA	AAAAAAW	CTCGACCGCA	AGGGAAT	1617

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(2) INFORMATION FOR SEQ ID NO: 203:

25	(i) SEQUENCE CHARACTERISTICS:					
	(A) LENGTH: 1974 base pairs					
	(B) TYPE: nucleic acid					
	(C) STRANDEDNESS: double					
	(D) TOPOLOGY: linear					

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:

	GAATTGGCA	CGAGGCTGAG	GGAGCTGAG	CGCAGCAGAG	TATCTGACGG	CGCCAGGTTG	60
	CGTAGGTGCG	GCACGAGGAG	TTTTCCCGC	ACCGAGGAGG	TCCTGAGCAG	CATGGCCC	120
35	AGGAGCGCCT	TCCCTGCCG	CGCGCTCTGG	CTCTGGAGCA	TCCTCTGTG	CCTGCTGGCA	180
	CTGCGGGCGG	AGGCCGGGCC	GCCGCAGGAG	GAGAGCCTGT	ACCTATGGAT	CGATGCTCAC	240
40	CAGGCAAGAG	TACTCATAGG	ATTGAAGAA	GATATCTGA	TGTTTCAGA	GGGGAAAATG	300
	GCACCTTTTA	CACATGATT	CAGAAAAGCG	CAACAGAGAA	TGCCAGCTAT	TCCTGTCAAT	360
	ATCCATTCCA	TGAATTTCAC	CTGGCAAGCT	GCAGGGCAGG	CAGAATACTT	CTATGAATT	420
45	CTGTCCTTGC	GCTCCCTGGA	TAAAGGCATC	ATGGCAGATC	CAACCGTCAA	TGTCCCTCTG	480
	CTGGGAACAG	TGCCACCAA	GGCATCAGTT	GTTCAAGTTG	GTTTCCCATG	TCTTGGAAA	540
50	CAGGATGGGG	TGGCAGCATT	TGAAGTGGAT	GTGATTGTTA	TGAATTCTGA	AGGCAACACC	600
	ATTCTCCAAA	CACCTCAAAA	TGCTATCTTC	TTTAAACAT	GTCAACAAGC	TGAGTGCCA	660
	GGCGGGTGCC	GAAATGGAGG	CTTTTGTAA	GAAAGACGCA	TCTGCGAGTG	TCCTGATGG	720
55	TTCCACGGAC	CTCACTGTGA	GAAAGCCCTT	TGTACCCAC	GATGTATGAA	TGGTGGACTT	780
	TGTGTGACTC	CTGGTTTCTG	CATCTGCCA	CCTGGATTCT	ATGGAGTGAA	CTGTGACAAA	840
60	GCACAACTGCT	CAACCACCTG	CTTTAATGGA	GGGACCTGTT	TCTACCCCTGG	AAAATGTATT	900

	TSCCCTCCAG GACTAGAGGG AGAGCAGTGT GAAATCAGCA AATGCCACA ACCCTGTCGA	960
5	AATGGAGGTA AATGCATTGG TAAAAGCAAA TGTAAGTKTG CCAAAGGTTA CCAGGGAGAC	1020
	CTCTGTTCAA AGCCTGTCTG CGAGCCTGGC TGTGGTGCAC ATGGAACCTG CCATGAACCC	1080
	AACAAATGCC AATGTCAAGA AGGTTGGCAT GGAAGACACT GCAATAAAAG GTACGAAGCC	1140
10	AGCCTCATAAC ATGCCCTGAG GCCAGCAGGC GCCCAGCTCA GGCAGCACAC GCCTTCACCT	1200
	AAAAAGGCCG AGGAGCGGCG GGATCCACCT GAATCCAATT ACATCTGGTG AACTCCGACA	1260
	TCTGAAACGT TTAAAGTTAC ACCAAGTTCA TAGCCTTTGT TAACCTTTCA TGTGGTGAAT	1320
15	GTTCAAATAA TGTCATTAC ACTTAAGAAT ACTGGCCTGA ATTTTATTAG CTTCAATTATA	1380
	AATCACTGAG CTGATATTAA CTCTTCCTTT TAAGTTTCT AAGTACGTCT GTAGCATGAT	1440
20	GGTATAGATT TTCTTGTTTC AGTGCTTTGG GACAGATTTT ATATTATGTC AATTGATCAG	1500
	GTTAAAATTT TCAGTGTGTA GTTGGCAGAT ATTTTCAAAA TTACAATGCA TTTATGGTGT	1560
	CTGGGGGCAG GGGAACATCA GAAAGGTTAA ATTGGCAAA AATGCGTAAG TCACAAGAAT	1620
25	TTGGATGGTG CAGTTAATGT TGAAGTTACA GCATTTCAGA TTTTATTGTC AGATATTITAG	1680
	ATGTTTGTAA CATTTTAAA AATTGCTCTT AATTTTAAA CTCTCAATAC AATATATTAA	1740
30	GACCTTACCA TTATTCCAGA GATTCACTAT TAAAAAAA AAAATTACAC TGTGGTAGTG	1800
	GCATTTAAC AATATAATAT ATTCTAAACA CAATGAAATA GGGAAATATAA TGTATGAAC	1860
	TTTTGCATTG GCTTGAAGCA ATATAATATA TTGTAAACAA AACACAGCTC TTACCTAATA	1920
35	AACATTTTAT ACTGTTTGTA TGTATAAAAT AAAGGTGCTG CTTTAGTTTT CTGA	1974

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(2) INFORMATION FOR SEQ ID NO: 204:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1057 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:

50	CGGCCTTCCG GGGCAACCGT TCGTCCCAAC NCGGAAAGG GTCTGGAGN CGGGAACTAG	60
	GAGCCTCGGA AGTCCAAGGG CGGAGCGCCC TTTGCTAATA AGCCAATCAG AACGTGAGAC	120
55	GCTCCGGTGG GNCGGTGCCG TCGAGCGCGG GGTGGAGTCT GGGTGAATTG GCTGGCGGGA	180
	TCAAGTGCAG CTGCTTCAGG CTGAGGTGGC AGATAGTGAG CGCTGGTGGC GGAGTTAAAG	240
	TYAAAGCAGG AGAGTAATWA TGAATAGCGC ACCGGGATTC TCACACCTAG ACCGTCGGGA	300

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	GGGGTTCTC AAGTTAGGGG AGAGTTTCGA GAAGCAGCCG CGCTGCGCTT CCACACTGTG	360
	CGCTATGACT TCAAAACCTGC TTCTATTGAC ACTTCTCTG AAGGATACCT TGAGKTTGGC	420
5	GAAGKTGAAC AGKTGACCAT WACTCTGCCM AATATAGAAA GTTGAAGGAA GCAGTAAAAT	480
	TCAGTATCGT AAAGAACAAAC AGCAACAACA ATGTGGAATT CASCCAGGAC TCCCAATCTT	540
	GTAAAACATT CTCCATCTGA AGATAAGATG TCCCCAGCAT CTCCAATAGA TGATATCGAA	600
10	AGAGAACTGA AGGCAGAAGC TAGTCTAATG GACCAGATGA GTAGTTGTGA TAGTTCATCA	660
	GATTCCAAA GTTCATCATC TTCAAGTAGT GAGGATAGTT CTAGTGACTC AGAAGATGAA	720
15	GATTGCAAAT CCTCTACTTC TGATACAGGG NAATTGTGTC TCAGGACATC CTACCATGAC	780
	ACAGTACAGG ATTCCTGATA TAGATGCCAG TCATAATAGA TTTGGAGACA ACAGTGGCCT	840
	TCTGATGAAT ACTTTAAGAA ATGATTGCA GCTGAGTGAA TCAGGAAGTG ACAGTGATGA	900
20	CTGAAGAAAAT ATTTAGCTAT AAATAAAAAT TTATACAGCA TGTATAATTT ATTTTGTATT	960
	AACAATAAAA ATTCCCTAAGA CTGAGGGAAA TATGTCTAA CTTTGATGA TAAAAGAAAAT	1020
25	TAAATTGAT TCAGAAAAAA AAAAAAAA AACTCGA	1057

30 (2) INFORMATION FOR SEQ ID NO: 205:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 721 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:

40	GAATTGGCA CGAGTCATCC CTCTCCCTCT TTCACTCCCT TACTCTTACT CTGTTTTTG	60
	TGCTCCAGAC AGACAGACCC TACCTCTTTT GCTTCTTTT TGTTTGTGTTG TTTTGAGATG	120
	GAGTGTGCT CTTGTTGCC AGGCTGGAGT GGAGTGGCCG AATCTGGCT CACCACAACC	180
45	TCTGCCTCCC GGGTTCAAGC AATTCTCCTG CCTCAGCCTC CCGAGAAAGCT GGGGATTACA	240
	GGCATGCGCC ACCACACCCA GCTNAATTAT ATATTTTTAG TAGAGATGGT GTTTCTCCAT	300
50	GTTGGTCAGG CTGGCTCAA ACTCCCAACC TCAGGTGATN CCGCCTGCTT TGGCCTCCCC	360
	AAAGTGCTGG GATTACAGGC GTGAGCCACT GCGCCCAAGC TCTTTTGCTC CTTTATACTC	420
	ATTAACTCAC GCCTGTAATC CCTGTTTGG GAGGCCAAAG TGAGAAGGTT GCTTGAGGCC	480
55	AAGAGTTGA GACTAGCCTG GGCAACACAG CAAGATGCCA TCTTTATAAT AAAAATAAAA	540
	ATAAAAATCA ATTAGCTGGG CATGGTGGAA CGCACCTGTA GTCCCAAGCCA ATTGAGAGGC	600
60	TGAAGTGGGA GGATCATTGA GCCCAGGAGT TGAGGTTGCA GTGAGCCATG ATCATGTAC	660

TACACTCAGC CTGGGCAATA GAGGGACATG TTGTCTCTAA AAAAAAAA AAAAAACTCG 720

A 721

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(2) INFORMATION FOR SEQ ID NO: 206:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2465 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

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- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:

20	CCACCATTTA TCCAACGTGAA GAGGAGTTAC AGGCAGTTCA GAAAATTGTT TCTATTACTG 60
25	AACGTGCTTT AAAACTCGTT TCAGACAGTT TGTCTGAACA TGAGAAGAAC AAGAACAAAG 120
30	AGGGAGATGA TAAGAAAGAG GGAGGTAAG ACAGAGCTTT GAAAGGAGTT TTGCGAGTGG 180
35	GAGTATTGGC AAAAGGATTA CTCTCCGAG GAGATAGAAA TGTCAACCTT GTTTGCTGT 240
40	GCTCAGAGAA ACCTTCAAAAG ACATTATTAA GCCGTATTGC AGAAAACCTA CCCAACAGC 300
45	TTGCTGTTAT AAGCCCTGAG AAGTATGACA TAAAATGTGC TGTATCTGAA GCGGCAATAA 360
50	TTTGAAATTC ATGTGTGAA CCCAAATGC AAGTCACTAT CACACTGACA TCTCCAATTAA 420
55	TTCCGAGAAGA GAACATGAGG GAAGGAGATG TAACCTCGGG TATGGTGAAA GACCCACCGG 480
60	ACGTCTTGGA CAGGCAAAAA TGCCTTGACG CTCTGGCTGC TCTACGCCAC CCTAAGTGGT 540
	TCCAGGCTAG AGCTAATGGT CTGCAGTCCT GTGTGATTAT CATA CGCATT CTTCGAGACC 600
	TCTGTCAGCG AGTTCCA ACT TGGCTGATT TTCCAAGCTG GGCTATGGAG TTACTAGTAG 660
	AGAAAGCAAT CAGCAGTGCT TCTAGCCCTC AGAGCCCTGG GGATGCCACTG AGAAGAGTTT 720
	TTGAATGCAT TTCTTCAGGG ATTATTCTTA AAGGTAGTCC TGGACTTCTG GATCCTTG 780
	AAAAGGATCC CTTTGATACC TTGGCAACAA TGACTGACCA GCAGCGTGAA GACATCACAT 840
	CCAGTGCACA GTTTGCATTG AGACTCCTTG CATTCCGCCA GATACACAAA GTTCTAGGCA 900
	TGGATCCATT ACCGCAAATG AGCCAACGTT TTAACATCCA CAACAAACAGG AAACGAAGAA 960
	GAGATAGTGA TGGAGTTGAT GGATTTGAAG CTGAGGGAA AAAAGACAAA AAAGATTATG 1020
	ATAACTTTA AAAAGTGTCT GTAAATCTTC AGTGTAAAAA AAACAGATGC CCATTGTTG 1080
	GCTGTTTTTC ATTCTATAATA ATGTCTACAT TGAAAAATTT ATCAAGAATT TAAAGGATTT 1140
	CATGGAAGAA CCAAGTTTT CTATGATATT AAAAATGTA CAGTGTAGG TATTATTTGA 1200
	ATGGAAAGAC ACCCAAAAAA AAAAATGTGC TCCGACTAGG GGGAAAACAG TAGTTCCGAT 1260

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	TTTTTCCCATTATTTTTCTG GTTGCCTAG CTTCCCCCCC TATTTTTGTG	1320
	TCTTTTATTAACTAGTGCAT TGTCTTATTA AATCTTCACT GTATTTAATG CAGGATGTGT	1380
5	GCTTCAGTGTCTCTGTAT TTTGATATTAAATTTAGAG GTTTTGTGTTG CTTTTTGACA	1440
	CTAGTTGTAAGTTACTTGT TATAGATGGT ATCCTTACCCCTTCTTAAT ATTTTACAGC	1500
10	AGTACGTTTTTTGTAAACGT GAGACTGCAG AGTTTGTGTTTCTATATGTG AAGGATTACA	1560
	ACACAAAAAG TTATCCTGCC ATTCGAGTGC TCAGAACTGA ATGTTCTGC AGATCTTGTG	1620
	GCATTTGTCTCTAGTGTAT ATATAAGGT GTAATTAAAGA CAGAGTTCTG TTAATCTAAT	1680
15	CAAGTTTGCT GTTAGTTGTG CATTAGCACTAATAGCTAATATATACTA TATGGTCTTG	1740
	CAACAGTTTTAAAGCTCTG CATAATTGAT AATAAAATG CATGACATTCTTGTTTAA	1800
	TAGACTTTAAATCATAATTTAGTTAACAGTAGAT CTTGTACAG TTGACTTTTAA	1860
20	GACATAGCAA GGCCAAAAAT AACTTCTGA ATATTTTTTCTGTTGTATA AGTGGAAAGG	1920
	GCATTTTCA CATATAAGTG GGCTAACCAA TATTTTCAAA AGAACCTCAT CATTGTACAA	1980
25	CTAACAAACAG TAACTAGCCC TTAATTATGG TGACAGTTCC TTATTGGTGT GTGTGAGATT	2040
	ACTCTAGCAA CTATTACAGT ATAACACAGA TGATCTTCTCACACACCCCC ATCACCCAGA	2100
	TAATTTACAG TTCTGTAAAC AGTGAGGTTG ATAAAGTATT ACTGATAAAA AATTATCTAA	2160
30	GGAAAAAAAC AGAAAATTAT TTGGTGTGGC CATCTTACCT GCTTATGTCT CCTACACAAA	2220
	GCTAAATATT CTAGCAGTGA TGTAATGAAA AATTACATCT TACTGTGTAT ATATGTATGC	2280
35	TCTGGTACAC AGATGTCATT TTGTTGTCAC AGCACTACAG TGAAATACAC AAAAAATGAA	2340
	ATTCAATATAA TGACTTAAAT GTATTATATG TTAGAATTGA CAACATAAAC TACTTTGCT	2400
	TTGAAATGAT GTATGCTTCA GTAAAATCAT ATTCAATTTT AAAAAAAAAA AAAAAAAAAA	2460
40	CTCGA	2465

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(2) INFORMATION FOR SEQ ID NO: 207:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1480 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:

55 GAATTCTGGCA CGAGCTCAAG CTGGCAGGTG GTCGGGGGAG CGGCCGGAGA GGAGCTGCCG 60
 GGAGTTCTGTG CCTCTGCAGGA CATGACACCA GTGGCATATC ACGGCCATGG GGTCTCAGCA 120
 60 TTCCGCTGCT GCTCGCCCT CCTCCCTGCAG GCGAAAGCAA GAAGATGACA GGGACGGTTT 180

	GCTGGCTGAA CGAGAGCAGG AAGAAGCCAT TGCTCAGTTC CCATATGTGG AATTCACCGG	240
5	GAGAGATAGC ATCACCTGTC TCACGTGCCA GGGGACAGGC TACATTCCAA CAGAGCAAGT	300
	AAATGAGTTG GTGGCTTGA TCCCACACAG TGATCAGAGA TTGCGCCCTC AGCGAACTAA	360
	GCAATATGTC CTCCGTCCA TCCTGCTTGT TCTCCTGGCA TCTGGTTGG TGTTTCTT	420
10	CCTGTTCCG CATTCACTCC TTGTGGATGA TGACGGCATC AAAGTGGTGA AAGTCACATT	480
	TAATAAGCAA GACTCCCTTG TAATTCTCAC CATCATGGCC ACCCTGAAAA TCAGGAACCTC	540
15	CAACTTCTAC ACGGTGGCAG TGACCAGCCT GTCCAGCCAG ATTCACTACA TGAACACAGT	600
	GGTGAATTTT ACCGGGAAGG CCGAGATGGG AGGACCGTT TCCTATGTGT ACTTCTTCTG	660
	CACGGTACCT GAGATCCTGG TGCACAACAT AGTGATCTTC ATGCGAACTT CAGTGAAGAT	720
20	TTCTACATT GGCTCATGA CCCAGAGCTC CTTGGAGACA CATCACTATG TGGATTGTGG	780
	AGGAAATTCC ACAGCTATTT ACAAACTGCT ATTGGTTCTT CCACACAGCG CCTGTAGAAG	840
	AGAGCACAGC ATATGTTCCC AAGGCCTGAG TTCTGGACCT ACCCCCACGT GGTGTAAGCA	900
25	GAGGAGGAAT TGGTTCACTT AACTCCCAGC AAACATCCTC CTGCCACTTA GGAGGAAACA	960
	CCTCCCTATG GTACCATTTA TGTTCCTCAG AACCAAGCAGA ATCAGTGCCT AGCCTGTGCC	1020
30	CAGCAAATAG TTGGCACTCA ATAAAGATTT GCAGAATTAA ATACAGATCT TTTCAGCTGT	1080
	TCTTAGGGCA TTATAAATGG AAATCATAAC GTGGTTCTAG GTTATCAAAC CATGGAGTGA	1140
	TGTGGAGCTA GGATTGTGAG TGACCTGCAG GCCATTATCA GTGCCCTCATC TGTGCAGAAG	1200
35	TCGCAGCAGA GAGGGACCAT CCAAATACCT AAGAGAAAAC AGACCTAGTC AGGATATGAA	1260
	TTTGTTCAG CTGTTCCCAA AGGCCTGGGA GCTTTTGAA AAGAAAGAAA AAAGTGTGTT	1320
40	GGCTTTTTT TTTTTAGAA AGTTAGAATT GTTTTACCA AGAGTCTATG TGGGGCTTGA	1380
	TTCACCCCTTC ATCCATTGGC TGGAACATGG ATTGGGGATT TGATAGAAAA ATAAACCTG	1440
	CTTTGATTC AAAAAAAA AAAAAWAAA AAAAACTCGA	1480
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(2) INFORMATION FOR SEQ ID NO: 208:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 872 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:

CAGTAAATTCC CTCAGTACTG TAAGCAAAAG TGGTAATTT TTCTTTCTTT ATGTCTACTC

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TGTCCTCTGT	GGCCTCTGG	TGTACCCCTC	TCTTCCTAGC	CATTCACTCT	CTCTAGTCAC	120	
CTCCCTAGTA	GCTAGTGCTC	TCTAAGTTTT	TATTTAATTA	GAACAACTCC	ATTTCCATTT	180	
5	CAAGGTAGGT	CAATGGGGGG	AAAAGCCTCA	TGATTTAAC	TGAAGTAAAC	AACACAGCTT	240
	TTAAAATGAA	AACTCATACT	CCAACTTCTA	AAGTATAATT	GAGCTGATTT	GTTCACAAAA	300
10	CAAAGATATG	CTGTACCTAA	AACTGCTAAA	ACAAAAATAT	AAAGACAAGG	ACTAGGTGAT	360
	TAAGGGAGA	GAAAAATCAT	YTCTTTCCA	GGAAACCTTT	GCTAAAATAA	GCAAAACTTG	420
15	ANTCTATGCT	TCATGGAAAC	TGACACAAG	AAAAGAAACT	GATGGATTGC	ACAGGCCTTG	480
	TTATAGAAAT	AGATCTATAA	AAAGATCTGT	CCACAGGAAA	TATACACCTT	CTCCTGGTTC	540
	TGAACATCAA	TGGGGATTTG	TCACCTAGGT	CTCCATCTAT	AGGAATACCT	TCACATACCT	600
20	ATCTATTTCAT	GCACATATTTC	TGAAAACAGG	TACATACAAA	ATTACAACAA	AGGAAAAAAA	660
	TTCTATTGAA	CACTAAAAAA	TAGAAACAGG	CCAGGCACGG	TGGCTCATGC	TGTAATCCCA	720
	ACAATTGGG	AGGCTGAGGC	TGGTGGATCA	CCTGAGGTCA	GGAGTGTGAG	ACCAGCTTGG	780
25	CCAACATGGT	GAAACCCCGT	CACTACTAAA	AATACAAAAA	AAATTAGCCT	GTGTGGTGGC	840
	ACACTCNTAC	AATCCNGGCT	GAETCGGGAA	AN			872

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(2) INFORMATION FOR SEQ ID NO: 209:

35	(i) SEQUENCE CHARACTERISTICS:						
	(A) LENGTH: 1779 base pairs						
	(B) TYPE: nucleic acid						
	(C) STRANDBNESS: double						
	(D) TOPOLOGY: linear						
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:						
	AATTGCCAAG	ACTGCACAAA	ATTACAGTGC	TAATGTATAT	GGTGCAGTT	CACATAAAGA	60
	CAAAAGCATC	TGTTATGAAA	TGAGTAGTAA	TATTGGTGG	TTGATTGTT	CTTAGCAGAC	120
45	TTGGCTTCAT	WTGGTCTTG	AGATAAAATG	GCCAGCATAA	ATGCTGTTA	TATTCACGTT	180
	TTCCTAGGTG	TGTGTGTGCA	GGCCACAGCA	GCATGCCCTT	GGTGTAGTCA	GTGCCGAAAS	240
50	GGGTCTGTT	CTTCTTGAGC	CTGCCTGCAG	GGATGGTCTC	CTTTTAAAGC	AGGTTGTGTG	300
	CACCATTCAG	TACACTGAAG	GTAAGCTAAA	CCATCAACAT	CTCTGGTGT	TTAAGATGTT	360
	ATTTTATTGG	AACAACTGAC	AAATGAGGGA	TGTTAGCTTT	GTGGCAGAAT	TCCCTGCATG	420
55	TGTGATAACT	GATCTTGTT	TATTTTTTGG	CATTGCACT	GTGGCAGAAT	TACAATTCT	480
	GTGGKTCAT	CACATTAAA	ATTGGRAGAG	AACGGCCTTG	AKGGATAGAG	CGCCTTCAGK	540
60	GTACTGTTTC	TTATTAACCT	TACTTTTTT	AAATCAACTT	GCTATAGACT	TTATATACT	600

	TTTGTAAAT ATAGTCCTA GTGACATAGA AACGATGCGT AGTTTCATT TACTAATTAC	660
5	AAATGTTGAG GCCTAATTCT GAAAGTCCTC ATATTTAAAG GCTAGACAAAC GTAATGAAAT	720
	TTTTAACTAT TTGTATGTCA TTTTGAAAGT GTACTGCTTT ATGGTAAAAG TGTTTTTCAT	780
	TTGTCATTG TTTTCATTAT TTGTGATCAT GTTGTCTTC AATACAGGCA TAAACCTTCC	840
10	ACTCTTGAAC AAAGCAGCTG CTTTTTAAAA GCGGTAATTG CTTCTTTACC TTTTATTCT	900
	TTTGTAAATG AAGCTTTCT TTAAGAATGT GACTTTAAAG TGTTGTCTAT TGCATAAAAC	960
15	AGTTGACACT CACTTATTGT AAAGTGAAGA TTGTTCTACT GCATGTGAAG TGGACCATGC	1020
	AGATTTCTGT ATGTTCTCAG TATGCATCAC TAGATAATAA AGTCTTTGT GAACAAGGCA	1080
	TTTGTAGCCA TTTTTAAAAG TTTTTGTCTT CAGTGCCTGGT AAGTCAGGTA AACCATAAAT	1140
20	AGTTAAAAGC AACCTTTTGT TTTTTCTG AAAGTTTTA ATTGAAAGTA TTATTAGTTA	1200
	AAGATGTAAA CCTAGCCAAA ATTACCAAGTT TATTAATAAT TAGGATCCTA ATTATTTCAA	1260
25	AAAATCCTAC AAATATTGTC AGCTTCAGT GTAGTGAGAT TATTCCTGTA GGTTATGGGG	1320
	TATAATTCAAG GATTAACTA ATGTTCTGC TATTTCTCA CTTTTCTTT TGATGGTGCG	1380
	GAAAGAGAAA AAGGAAAACG GGGCACAGGC CATTGACGC CTTCTCCAAG GGGTCTGATT	1440
30	TGCTGAGACA CCAGCTTCAC CTTCTTAACA AGGCACCTAA TTACAACAAG CATGCACATT	1500
	TTGGTGCATT CAAGAATGGA AAATCAGAAT AGCAGCATTG ATTCTTCTGG TGCAGCTCAG	1560
	TGGAAGATGA TGACAACCAG AAGACATGAG CTAAGGTAA GGGACTGTT TGAAGAACCT	1620
35	TTCCATTTAG TGATCAAGAT ATGGAAGCTG ATTCTGAAA ATGCTCAGTG TGTACTCTAA	1680
	TTATTTATGG TACCATTTGA ATTGTAACCT GCATTTAGC AGTGCATGTT TCTAATTGAC	1740
40	TTACTGGAA ACTGAATAAA ATATGCCTCT TATTATCAA	1779

45 (2) INFORMATION FOR SEQ ID NO: 210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2110 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:

55	GCGGCCGCTG CAGCCCGGAG CTGAGCTAGC CGTCCGAGCC GAGCCGTCCG AGCCGGGGAA	60
	GGCGGCGCGT GCTGCCGCTC GTGGCGGCCA GAGGAGAGGA GAGGCAGCAG CATGGCGAGT	120
60	GTCCTGTCCC GACGCCCTGG AAAGCGGTCC CTCCCTGGAG CCCGGGTGTT GGGACCCAGT	180

	GCCTCGGAGG GGCTCGGCT GCCCCACCCCT CGGAGCCACT GCTAGAAGGG GCGGCTCCCC	240
	AGCCTTCAC CACCTCTGAT GACACCCCTT GCCAGGAGCA GCCCAAGGAA GTCCTTAAGG	300
5	CTCCCAGCAC CTCGGGCCTT CAGCAGGTGG CCTTITMAGCC TGGGAGAAG GTTTATGTGT	360
	GGTACGGGGG TCAAGAGTGC ACAGGACTGG TGGWGCAGCA CAGCTGGATG GAGGGTCAGG	420
	TGACCGTCTG GCTGCTGGAG CAGAAGCTGC AGGTCTGCTG CAGGGTGGAG GAGGTGTGGC	480
10	TGGCAGAGCT GCAGGGCCCC TGTCCCCAGG CACCACCCCT GGAGCCCGGA GCCCAGGCC	540
	TGGCCTACAG GCCCGTCTCC AGGAACATCG ATGTCCAAA GAGGAAGTCG GACGCATGGA	600
15	AATGGATGAG ATGATGGCGG CCATGGTGCT GACGTCCCTG TCCTGCAGCC CTGTTGTACA	660
	GAGTCCTCCC GGGACCGAGG CCAACTTCTC TGCTTCCGT GCGGCTGCG ACCCATGGAA	720
	GGAGAGTGGT GACATCTCGG ACAGGGCAN CAGCACTACC AGCGGTCACT GGAGTGGGAG	780
20	CAGTGGTGTGTC TCCACCCCT CGCCCCCCCAGG AGCCCCAAGT ATTIGGGGA	840
	TGCTTTGGT TCTCCAAA CTGATCATGG CTTTGAGACC GATCCTGACC CTTTCCTGCT	900
25	GGACGAACCA GCTCCACGAA AAAGAAAGAA CTCTGTGAAG GTGATGTACA AGTGCCTGTG	960
	GCCAAACTGT GGCAAAGTTC TGCGCTCCAT TGTGGGCATC AAACGACACG TCAAAGCCCT	1020
	CCATCTGGGG GACACAGTGG ACTCTGATCA GTTCAAGCGG GAGGAGGATT TCTACTACAC	1080
30	AGAGGTGCAG CTGAAGGAGG AATCTGCTGC TGCTGCTGCT GCTGCTGCCG CAGACCCCCA	1140
	GTCCCTGGGA CTCCACCTC CGAGCCAGCT CCCACCCCCA GCATGACTGG CCTGCCTCTG	1200
35	TCTGCTCTTC CACCACCTCT GCACAAAGCC CAGTCCTCCG GCCCAGAACCA TCCTGGCCCG	1260
	GAGTCCTCCC TGCCCTCAGG GGCTCTCAGC AAGTCAGCTC CTGGTCCCTT CTGGCACATT	1320
	CAGGCAGATC ATGCATACCA GGCTCTGCCA TCCCTCCAGA TCCCAGTCTC ACCACACATC	1380
40	TACACCAGTG TCAGCTGGGC TGCTGCCCC TCCGCCGCCT GCTCTCTMTC TCCGGTCCGG	1440
	AGCCGGTCGC TAAGCTTCAG CGAAGCCCCA GCAGCCAGCA CCTGCGATGA AATCTCATCT	1500
45	GATCGTCACT TCTCCACCCC GGGCCCAGAG TGGTGCAGG AAAGCCCGAG GGGAGGCTAA	1560
	GAAGTGCCGC AAGTGTATGG CATCGAGCAC CGGGACCAGT GGTGCACGGC CTGCCGGTGG	1620
	AAGAAGGCCT GCCAGCGCTT TCTGGACTGA GCTGTGCTGC AGTTCTACT CTGTTCTGG	1680
50	CCCTGCCGGC AGCCACTGAC AAGAGGCCAG TGTGTACCA GCCCTCAGCA GAAACCGAAA	1740
	GAGAAAGAAC CGAAACACGG AGTTTGGCT CTGTTGGCTA AGGTGTAACA CTTAAAGCAA	1800
55	TTTTCTCCCA TTGTGCGAAC ATTTTATTCTT TTAACAAAAA GAAACAAAAA TATTTTCCC	1860
	CCTAAAATAG GAGAGAGCCA AACTGACCA AGCCTATTCA GCAGTGAACC AGTGACCAAA	1920
60	GAATTAATTA CCCTCCGTTT CCCACATCCC CACTCTCTAG GGGATTAGCT TGTGGGTGTC	1980

AAAAGAAGGA ACAGCTCGTT	CTGCTTCCTG CTGAGTCGGT	GAATTCTTTC	CTTTCTAAAC	2040		
TCTTCCAAGAA	AGGACTGTGA	GCAAGATGAA	TTTACTTTTC	TTAAAAAAAAA	AAAAAAAAAA	2100
5	AAAAACTCGA					2110

10 (2) INFORMATION FOR SEQ ID NO: 211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 938 base pairs
- (B) TYPE: nucleic acid
- 15 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:

20	GGCACAGGAA	AAAAAAAGAAA	AAAGAAAAAA	GAAAAAAGTT	TTTGTACCCA	CAGATTAGCA	60
	TTTTCTTGAT	TTTGAAAAAA	AGTTTAAGCT	ATGTCTTAAT	TTAAAAATGA	GCACAAACTA	120
25	CTTAAACAGAT	GTCTGTTCCC	TCTTCTCTTA	CTTAAATTAT	CTTATTTTC	ACCATCACCT	180
	CCCAGTGCCG	AACACCTGAN	CTCTGTGTTT	TGTGGTGGGA	TCCTGGGTTG	CCAAGTTCCCT	240
	ATTTGGTCAG	TCCCTGGCCT	GTGGGGCGGT	CTCAGGAAGT	GGCATGCTCT	TCAMGRAGGA	300
30	TCGTTCATYT	CCAGTATAAC	CAWTTTGTAA	ATAATAGTGTG	ATAATTCCCA	GCTTTTACCA	360
	GATGARTTTT	GACTTATTTT	TCCTCCCTTG	ACCTGTTCAA	AGCTAACATA	TCTCGGTCA	420
	TTCCGGAGAGG	GTGGGGGATT	TGAGAATGTG	AGGAGGAGTG	GGGTTAGAAT	GGGTTTGCCT	480
35	ATCTGGCAA	GGAAAGAGTT	CCTAGTCGAT	TGGGCACAAT	GACAAAATGA	TTCCATGGAT	540
	AGAATCGTCC	CATGTTGCTG	GAACACCTCA	CGTGTGTGA	ACGCCTTAAA	TTCCCTGCCAT	600
40	CCCTTCTCTG	ATTCCCCACC	TCCCTGTAGT	TTCCACAGGA	TTTATCTCTC	TGTACCCCCG	660
	TCCTCCAAC	CTACTCTGTC	AGCCTCTCCT	CCATCCCTTA	CTTCCCTCTCT	AAATTCCAGG	720
	AGATGACCTC	ACTTTGCAA	GCAAATTGGA	GCCACCAAAT	TGTAGCTCTC	CTCGGTGGAA	780
45	ACTGCATCTG	TGCTCATCCC	TGCACCTCT	TGCAGAAAGC	CGCCCCCTCA	GGCCAAGATG	840
	AGTGCCTGGC	CCCCATGGGA	GACTCAGACA	CTTGTACCCC	TTGTGACTTC	AGCATCTCCC	900
50	TCTTTAAAGA	TTCTCTCCCA	ACATTCAAGTC	GTGCTCGA			938

55 (2) INFORMATION FOR SEQ ID NO: 212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1551 base pairs
- (B) TYPE: nucleic acid
- 60 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:

5	AGGCTGGACT AAGCATAGAG AACCAGGAGA GAAAGAAAGA TTTAAGAGAC TGAGTAATAT	60
	TTTTTGACAG ATCATTAAAG AAACGTGAGTA ATTTTTTTTT TCTCCAAAAG CCCATGGGTT	120
10	TTTTTTTGT TTTGTTTTTT CTCTATTGG CACTTTCTAG GGATTGGTCT ATAATTTTT	130
	TGAAAGATCA TAGGATAAT TTCTTTGTAG CAACTTCCTA TTTTAGTGT TATGTTAGGG	240
	GARCCCCARG TGTCCCTGCT GATAGCCAT TAGGGCCACT TCTCAGCCTC TGGCTACATC	300
15	ATAATGCTTT TTTTCTATC TTGCCAAAGT TTCCMAAAAA TTKAKGTTTT CTAAATTTAA	360
	AAAAAATTGGT TGTGGAGATG GGATGGGACC TCTTTATAAG CCCIGAAAAT AAGTGATTIN	420
20	TTTTAAGTGC TATTCTGCTA TAAACCTGAT TCTCACTTTT TTCTGTAGAC AACAGTTTT	430
	TATAATATAT CTATTTTGIG TGGACATTAT TTCCCTTTAA CCAAACTGAA AATTCATAG	540
	TGTAWACTTT CTCCACATTT TCTTGTATTA ATACTTYCTT AAAATAGACA CTGGATTGG	600
25	CACCAAGCTGT CACCAATAAA GCTGCCCTGA ACATTGTCAA TCAATCCTGT TAACCAATT	660
	GAGAATTTTT CTGGAATGCT TAGTTAGGGA TGAAATTGCT GGGTTATAGG TATGAGTATG	720
30	CTTGATATAC TTTTCTCCAG AATGTCTACA CCTGTGTGA CACCACTCT CCAGAGATAG	730
	GGGAATCTTA TGTCCCTGCT AACTGCTCTC GTTATTTAA TTTCTGACAT TTGCCGCC	840
	CGCCGCCCGG ACACACATGG TATAAAGTGG TAGTTCTTG TTTAAATTG	930
35	AACTTTGAA TGATTTGAAT TTGGCATT TTTGTATCC TGAGTTATT TGTTTTCCG	950
	TTATGTGAAT ATCCCTTCC TATGTTAA CTACTTTCT AATTGTCCC TTTTTTNGGT	1020
40	TATCAAATTG CAGGCCATTG TCTATTCCAT CGTCACTTTT GGGTATTGGA AACATCTTC	1030
	CATTCTGTAG CCTGTCTGTT GAACATAAT CTTGATTTT ATGTAATCAG ATTTTCTCC	1140
	TTACGGTTAT GTTCTTGGAA TTTTATTTAA GAAATCTTT TCTATCCTGA GACCACAAA	1200
45	ATGCCCCAC CATTCTCTTC TGTTTCATAG TTTGCCCTG TATGTTAAAT CCTTTAAGGC	1260
	ATGTTAGTT CATTATAT GGTGTGAAAT AGTTCTTATT CATTATTCA ACACATATTG	1320
50	GTGGAGTGCC TGCTGATGGT AGTACTCTTC AGAGTACTTT GTATATATT GTGAACACAT	1380
	ATTCTTGCCC TGGAAGCTTA TGTTGTCNTT CAAGGTAGAT CCNTACTCGG TTTCCACCTG	1440
	TTTTCTTCAG CCCTCAGGAT GAATTCCACA ATTTACACA TAGCACCAGT TAAGGAATAG	1500
55	GCTTATTGG AGAAAAGGAA GGCTTATTAG ACCAGCATCA GCAAAAAAAA A	1551

60 (2) INFORMATION FOR SEQ ID NO: 213:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 997 base pairs
 (B) TYPE: nucleic acid
 5 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:

10	AGAGAGTCCT CAACAGAACCC TAATCATGCT GGCACCCCTAA TCTCTTACTT CTAGCCCTCCA	60
	GAAGTGAGAG AACATAAAACT CCAGTTGTTT AAGCTACCCA GCTCTGGTA TTGCTTAATA	120
15	TAGCCCAAGC TAAGTCAGGT GGAAAGGCAG AATATTTTG AGTACATGCA TTGCTACAAA	180
	AACAGAGTTG TTCTAAATGA AATGCCAGA TATTCATCT TCTCTTACTT AGTATTAG	240
	AAAGTTTCAT TAAACACCAC TTGGCCAGCA CCCAGGCCTG CCACCTCAG AACGGCAGAC	300
20	AAAAGCAAAT GATTTGAGGA ACAAAAGAGT GGACACAGAG CCTCTCAGAA GATGGCTCCA	360
	TCTTCTGAGA TGATCTTCTG AGATCATCAA TTTTCTGCAC CTGAGCTCTT ACTCCAAATG	420
25	TAGTAGATAA GAGCAAAGAC ACTTCCTGAT CCTGTGGAA AGGGTGGAGC CCTGCTGATG	480
	GAGAGGCTGA CACTGGGACC AACAGAAGGC CGGACATTTA TTGGTGGAGC CCCTTCGCA	540
	CCTGGCCCT CTTCAAGGCCT TGTACCTTGC ACTCCCCATG CCACCTGAGC ACCTGGTAAG	600
30	CTGAAGTTAG GTATTTGAAG AGATAATTTG CCCCCAACCA AGTATTTCTT AAAAGAATAA	660
	GGAAACCACT AAATTCCACT TGACAAACCA GTTGTGTCAG TTTGACTTT TGCAAATTG	720
35	AAACTTTCTC TTTGGCACCA TATGATTCAG TTACATTAGG GTCATGCACT CCTAAGAATC	780
	ACAGCTAGGT CTACCAAGCTG CCAGTGGTCA AGAACGAAG AGCTCTCAG AGAGAGATCA	840
	GTTCCTAATA ACCTAACAGT TTTCCTTGGS TATTACAAA AAAAAAAA TTAGAATAAA	900
40	ATGTCAGTGC CATGCAGGCA AGTACAGATA TGGAAATGAA AGCTTGTCT ACAACTGCCA	960
	GATTTGTTG TTAATAAAAT TGATTTGGAT CACTCGA	997

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(2) INFORMATION FOR SEQ ID NO: 214:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1496 base pairs
 (B) TYPE: nucleic acid
 50 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

	GAATTGGCA CGAGTGACCA CAGATATCTT TGGCTTTCAG CCTCAACACA ATGCTGTCCA	60
	CTATGTTTTT TTAAATCGAT TGACATCTCA TGAATCCACA AATTAGCCCG CTTTCCATC	120

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TTTTCCATCT	TIGTCATAGC	TTCATCACGC	ACGATGGAGG	TCACTTCAGC	ACTATCCGGA	180	
GGGGCTCAC	GGACAGATCR	GTGAATTTC	TTTCTTTT	TCTTGATGTA	CCGGATTGTC	240	
5	GAATCGTTAA	CATTGAGCTC	ATGGCCAACA	GCACGTAAAC	TCATGCCCTGA	TTGGAGCTTA	300
TCCAACACGC	GGAMTTCTC	CGTAAGGSAM	ATCAMGGTCT	TCTTCGCTT	AGGAACACTG	360	
10	GGCARARCTT	AARCACTACG	CTTGGGGGCC	ATTTTAAAGAA	GCAAAACAC	CCACAAAAAG	420
CAGAAAAAAA	AGTGTCAAGTA	AACAGACTGN	NGANAGGACT	CTTTGTTTAC	AGCACAGGAG	480	
CTGCGACTAG	AAGGCGGCGC	TTCTCCCCAG	TTCAAACCTTC	AGCTGGGAAC	CTTACCTCCG	540	
15	CCAACCTCAA	ATTTTCACCC	TCTGCCATG	CCCGGAAAS	AAACCCCCAG	AACAGTACCG	600
TGATGATTGA	TTTTAGGGTT	ACAAAATACAT	TTTAGCAAGT	AAAGTGAATT	GGCATTACGA	660	
20	ATTAATGATT	AATGAAGGTC	ACCTGTATTT	CCATAGATAT	GTAATTATAT	TTAACAGGTT	720
TTATTATATT	AAGGCGGSGA	GGCAGCGCCG	AAGACTACAA	GTTCCAGCAT	GCACCGCGTC	780	
CGGGCGGGTT	CGGGCTCCCA	GCGAGGGCTT	CAGGGACGCC	AGCCCGGAGG	CATCGGCCGG	840	
25	AAGTGTCA	GGGCAACCAC	GTAGTACTCT	CTGCGCATGT	GCAAAGCGCT	GTCGGGGGCC	900
GCCCTAGCTG	CCGTCGCCGC	CGCCGGGGCT	CTATGGTCTC	TCCCTAGAGC	TTTGGCGTTG	960	
GAGGCGGCTG	CTGCGGTCTT	GTGAGTTGA	CCAGCGTCGA	GCGCAGCAA	CATGGAGGAA	1020	
30	TTCGACTCCG	AAGACTTCTC	TACGTCGGAG	GAGGACGAGG	ACTACGTGCC	GTCGGGTGAG	1080
CGATTCCGCC	TGAGGCAGAGA	AGCGAATTGC	CCCACCCAC	GCCTCACGTG	AGGCGCGCTC	1140	
35	TGCCCGCGCG	GGCGCTTGCC	CTGTGGCCCA	GGTGGTCCAG	GGGGGCTCCT	GTTCTCGAGC	1200
GTCCGCTCCC	TCAGGCCCCCT	CATCCTCGGC	CGCTCCGCC	CGAGGCGTGT	GCGCGTGGCG	1260	
40	GTTCTGTGCT	CCCCTCCCGT	TGGGCAGCTC	CGGCCGCCGC	CCCCTCTTGC	AGCGCGGGAA	1320
CGGCACATGG	ACACGGCCCC	TTGTCGCTAG	GGACGCTCGT	CGGTCAAGCCC	CGAACGACAA	1380	
CGCTGCTTCA	GAAGTCGGGG	CGGCAGTCG	AGCCTTGGAA	GTTTTTTTCA	GCCCTGGCCC	1440	
45	GAGAGAGCTG	CTGGCCAACA	ACCCGTCCAA	GATAGAGCTG	TCCGNTCTCC	GNCTGG	1496

50 (2) INFORMATION FOR SEQ ID NO: 215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

60 TTGGCANCNG GGAGAGGGAA AGAGGAGGAA ATGGGGTTG AGGACCATGG CTTACCTTC

5	CTGCCTTGAGCCATCACACCCCATTCCCTCTCTTCCCCTCTCCCCGCTGCCAAAAAA	120
	AAAAAAAGGAAACGTTTATCATGAATCAA CAGGGTTCA GTCCATTATCA AAGAGAGATG	180
10	TGGAAAGAGCTAAAGAAACCACCCATTGTTCCAACTCCA CTTTACCCATATTTATGCA	240
	ACACAAACAC TGTCTTTG GGTCCCTTTC TTACAGATGG ACCTCTGAG AAGAATTATC	300
15	GTATTCCACG TTTTAGCCC TCAGGTTACC AAGATAAATA TATGTATATA TAACCTTTAT	360
	TATTGCTATA TCTTTGTGGA TAATACATTC AGGTGGTCTGGGTGATTAA TTATAATCTG	420
20	AACCTAGGTA TATCCTTGG TCTTCCACAG TCATGTTGAG GTGGGCTCCC TGGTATGGTA	480
	AAAAGCCAGGTATAATGTAA CTTCACCCCA GCCTTGTAC TAAGCTCTG ATAGTGGATA	540
25	TACTCTTTA AGTTAGCCC CAATATAGGG TAATGGAAAT TTCTGCCCTCTGGTCC	600
	CATTTTACTATTAAGAAGA CCAGTGATAA TTAAATAATG CCACCAACTC TGGCTTAGTT	660
30	AAGTGAGAGT GTGAACGTG TGCAAGAGA GCCTCACACC TCACTAGGTG CAGAGAGCCC	720
	AGGCCTTATG TTAAAATCAT GCACCTGAAA AGCAAACCTT AATCTGCAAA GACAGCAGCA	780
35	AGCATTATAC GGTCACTCTG AATGATCCCT TTGAAATTTTTTTTGTTTTGTTAA	840
	ATCAAGCCTG AGGCTGGTGA ACAGTAGCTA CACACCCATA TTGTGTGTTCTGTGAATGCT	900
40	AGCTCTCTG AATTGGATA TTGGTTATTTTTATAGTGTAAACCAAG TTTTATATTC	960
	TGCAATGCGAACAGGTACCT ATCTGTTCTAAATAAAATCTTACATTCAATTATGGGT	1020
45	ATGTATGACC TTCACTTCC AAGAAATAGA ACTCTAGCTT AGAATTATGG ATGCTCTAAA	1080
	ATGTCAGAAT GGGAACTCTC CTCGAAGTTC TCCCAAACCTC AGAGACAGCA CTGCCTCTC	1140
	CTAAATGATT ATTCTTTCTCCCTGTGTTTC TGGTATTTCTAGGCATCCTCTCACCACA	1200
50	GCCATAACCC TTTTTACTT CCATTAGGCC GTATAACTGG NGGGACNGCTGGCGGTATA	1260
	TAATACTGGT WCCAACAMAG GGGTCTGGA TGTACACMAG GTTATCTT	1308

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(2) INFORMATION FOR SEQ ID NO: 216:

50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 1705 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:	
	TGGCCATGGA AGCGCTAGAA GGTTTAGATT TTGAAACAGC AAAGAAGGAT TTCTTGGAT	60
60	CTGGAGACCC CAAAGAAACA AAGATGCTAA TCACCAAACA GGCTGACTGG GCCAGAAATA	120

	TCAAGGAGCC CAAAGCCGCC GTGGAGATGT ACATCTCAGC AGGAGAGCAC GTCAAGGCCA	180
	TCGAGATCTG TGGTGACCAT GGCTGGGTTG ACATGTTGAT CGACATGCC CGCAAACCTGG	240
5	ACAAGGCTGA GCGCGAGCCC CTGCTGCTGT GCGCTACCTA CCTCAAGAAC CTGGACAGCC	300
	CTGGCTATGC TGCTGAGACC TACCTGAAGA TGGGTGACCT CAAGTCCCTG GTGCAGCTGC	360
	AGTGGAGACC CAGCGCTGGG ATGAGGCCTT TGCTTTGGGT GAGAACATC CTGAGTTAA	420
10	GGATGACATC TACATGCCGT ATGCTCAGTG GCTAGCAGAG AACGATCGCT TTGAGGAAGC	480
	CCAGAAAGCG TTCCACAAGG CTGGCGACA GAGAGAACG GTCCAGGTGC TGGAGCAGCT	540
15	CACAAACAAT GCCGTGGCGG AGAGCAGGTT TAATGATGCT GCCTATTATT ACTGGATGCT	600
	GTCCATGCAG TGCCTCGATA TAGCTCAAGA TCCTGCCAG AAGGACACAA TGCTTGGCAA	660
	GTTCTACCAC TTCCAGCGTT TGGCAGAGCT GTACCATGGT TACCATGCCA TCCATGCCA	720
20	CACGGAAGAT CCGTTCAAGTG TCCATCGTCC TGAAAATCTT TTCAACATCT CCAGGTTCT	780
	GCTGCACAGC CTGCCCAAGG ACACCCCTC GGGCATCTCT AAAGTAAAAA TACTCTTCAC	840
25	CTTGGCCAAG CACACCAAGG CCCTCGGTGC CTACAGGCTG GCCCCGACG CCTATGACAA	900
	GCTGCCTGGC CTGTACATCC CTGCCAGATT CCAAAAGTCC ATTGAGCTGG GTACCCCTGAC	960
	CATCCCGGCC AAGCCCTCC ACACAGTGAA GGAGTTGGTG CCCTTGTGCT ACCGCTGCTC	1020
30	CACCAACAAC CCGCTGCTCA ACAACCTGGG CAACGCTGTC ATCAACTGCC GCCAGCCCTT	1080
	CATCTCTCC GCCTCTTCCT ACACAGTGCT ACACCTGGT GAGTCTTAC TGGAGGAAGG	1140
35	GATCACTGAT GAAGAACCCA TCTCCCTCAT CGACCTGGAG GTGCTGAGAC CCAAGGGGAA	1200
	TGACAGACAG CTAGAGATTT GCAAACAACA GCTCCCAGAT TCTTGCCTGG ACTGGGAGAC	1260
	CAAGGGACTC CATCGGAGAT NAGGACCCGT TCACAGCTAA GCTRAGCTTT GAGCAAGGTG	1320
40	GCTCARAGTT CGTGCCAGTG GTGGTGAGCC GGCTGGTGCT GCGCTCCATG AGCCGCCGGG	1380
	ATGTCCTCAT CAACGGATGG CCCCCACCCC TGAGGTGGCA ATACTCCGC TCACTGCTGC	1440
45	CTGACGCCCTC CATTACCATG TGCCCTCCT GCTTCCAGAT GTTCCATTCT GAGGACTATG	1500
	AGTTGCTGGT GCTTCAGCAT GGCTGCTGCC CCTACTGCCG CAGGTGCAAG GATGACCCCTG	1560
	GCCCATGACC AGCATCCTGG GGACGGCCTG CACCCCTGTC CCAGCTTGGG GTCTGCTGG	1620
50	CTGTGAAGGA GAATAAAAGAG TTAAACTGTC AAAAAAAA AAAAAAAA AAAAAAAA	1680
	AAAAAAAAA AAAAAAAA AAANA	1705

- (A) LENGTH: 999 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

AGCAAATCAC	CTTAAACGATC	TGGAATGAAA	CTGTGACCAAG	TGCGGCCCTG	GGTGGTTCTG	60	
10	GAGAGACTGC	CGTCTTCTTG	TTTGGCCATA	GGTGCTGGGG	CCCCGGCTTC	AGTCACTGTC	120
	TCAGACAGKA	GTCCCGATAAA	GCAGATCACC	AGTCCTCCAC	TGTCCTTCCT	GTCGGCCCTG	180
15	CTGGCATGAGA	AGATAGCTGC	TTCCCTCCCTC	TTTTCCCTACA	CTGTAATTAA	TTGTTTTACA	240
	ATTGAGTGYC	TTAATAATAG	TYTACAAATA	CTATGTATTT	ATGCAAAACT	GTAAAGTTTC	300
20	TCATCTGTTA	TGATTGGATA	CTTGGTCTTG	TCAGTAGTGG	TCAGCATTGG	GTTGTGAGCT	360
	TGTCCTACTC	CATACGTGTT	TATCCTGCTA	TGCATTTTAC	ATTGTGTGTT	CACATCTATT	420
25	CCAAGGAGCC	TTGCTAGAAA	CAACACTGGC	GGTTCCCTGCA	GGCCAGGCAG	GCATTGGCCC	480
	ATGCTGTGTC	CCATAGGAGC	CAATGGAAAG	AACGTAGCTT	GGTCTGCTAG	CCAGCCGTGG	540
30	GGTGGCCGAG	GCCAGGCAGC	CTCTGCACCA	GAGTCCAGCA	CCTGCCATT	CCCCAGTCAC	600
	ACAATCATAAC	TCTTCTTTCA	TAGAGATTTT	ATTACCACCT	AGACCACCCCT	AGTTTTCCCTC	660
35	TCTGTTAGTG	TCCTGAGCTC	TTTGCAACA	AAATGTAGGT	ACAGACCAAT	CCCTGTCCCT	720
	TCCCCAATCA	GGAGCTCCAC	ACCATGAGTT	TTTTGGTTTT	CCAGAAAGCTG	CCAGTGGTT	780
40	CCCGTGAATT	CCGTTAAGAT	ATCGATGATK	TTTTTTATTG	TTTTTCTTCT	TGTTTTTTTA	840
	AATAATATAT	TTAAAGGCAG	TATCTTTGT	ACTGTGAATT	TGCACTAGAA	GATGCAGAAT	900
	GCACTTTTTT	TTTACTCTG	TTGGTGTGTA	TTGTATATAG	TGTGTGTGCT	TCTTGTGATG	960
45	AAAAATAAACT	TTTTCTTTAT	AAAAAAAAAA	AAAAAAAAC			999

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(2) INFORMATION FOR SEQ ID NO: 218:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 941 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

50

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

55	GGCACGAGTA	GCATTTCATT	TAATCTGCAG	GTATATTCTC	CCAAACAGTTT	ATTGTCTATGT	60
	GATGTCCTCA	GCCAAGATTG	TRAGGCAGAG	AGGAGCTGTC	CCAACCTACT	ATACCACCGA	120
60	GGCTGGAGAG	ATCATATTTT	TGGTATTTAAA	CTGGAGCTC	TCCATCCCTTC	ACATTGTTGA	180

TGTCCCTCTGT	AGCAAACCGG	AAAAGTCAGT	GACAGAAGAT	GCCGCTAGCG	GTGGAGCCA	240	
GAGAAATGACA	GCTCTGGTTT	GGAGAAAAGG	GCCGGATGGT	GGCTCTAGAA	AGCCCATCCT	300	
5	TCTGCTCTTC	TTTTTCTCC	CCCTTATATT	GTGCTTCAT	TCATTCATTC	ATTCACTAAA	360
CATTGTTGA	GCACCTATTA	TGTGCAAGC	TCTGTGCTAG	CCTCTGGAAA	ACCTGCCCTC	420	
10	ATGTAGCTCA	CTGTGGAGTA	GGAGAAACAA	TGACTACACT	ATGATAAGCA	CGGGTTGTCA	480
GGGTCTCACA	GAGCACTGGC	CCCTCATCCA	GACCGATGAG	GTCAAAGAAG	GCATCCAGGC	540	
GAGGATGGTG	TCAGAGCTAA	CTGAAGAATG	AGAGGGAGCT	GCACCASCAG	GGGTTGGAAC	600	
15	TGAAGGTGGC	AGTGCCTGGA	GTCTTGATTC	CAGCAGAGGG	AGAGCAGTCT	GTGAAAAGGC	660
ACCAAGGGTG	GGAGAGGGCA	GAGCACATGG	AGGAACCTCA	GGTAGTTCTG	GATGGCSCTG	720	
20	GGGCAAAGCT	AGAGAGGTAA	GAAGAATCTA	CAAATGTTCC	TCGAGTTACA	TGAACCTTCCA	780
TCCCAATAAA	CCCATTGGAA	ACGAAAAATT	TAAGTCAGAA	GTGCATTAA	GGCTGGTCCG	840	
AGTAGAATGA	TTTTTACAAC	GAATTGATCA	CAACCAGTTA	CAGATGCTT	TGTTCTTCT	900	
25	CCACTCCCAC	TGCTTCACCT	GAATGCCTT	TAaaaaaaaa	A	941	

30 (2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 575 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

40	TAAGTGGAAAT	CCCCGGGGT	TGCAGGAAAT	TCGGCACAGAG	GCATTCTGAG	AAGCTTAAGA	60
CATACTTTGA	AGACAACCT	AGGGACCTCC	AGCTGCTGG	GCATGACCTA	CCTTGCACC	120	
45	CCGCAGTGGT	GAAGCCCCAC	CTGGGCCATG	TTCCCTGACTA	CCTGGTTCCT	CTGCTCTCC	180
GTGGCTGGT	RCGCCCTCAC	AAGAAGCGGA	AGAAGCTGTC	TTCCCTTGT	AGGAAGGCCA	240	
AGAGAGCAA	GTCCCAGAAC	CCACTGCGCA	GCTCAAGCA	CAAAGGAAAG	AAATTCAAGAC	300	
50	CCACAGCAA	GCCCTCCTGA	GGTTGTTGGG	CCTCTCTGGA	GCTGAGCACA	TTGTGGAGCA	360
CAGGCTTACA	CCCTTCGTGG	ACAGGGGAGG	CTCTGGTGCT	TACTGCACAG	CCTGAACAGA	420	
55	CAGTTCTGGG	GCCGGCAGTG	CTGGGCCCTT	TAGCTCCTTG	GCACCTCCAA	GCTGGCATCT	480
TGCCCTTGA	CAACAGAATA	AAAATTTAG	CTGCCCAAA	AAAAAAA	AAAAAAA	540	
CTCGAGGGGG	GGCCCGTACC	CAATCGCCC	TATAA			575	

(2) INFORMATION FOR SEQ ID NO: 220:

5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 3018 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:	
	GCCAGCCTTA CAGGTTTAC GTGAAATGAA AGCCATTGGA ATAGAACCT CGCTTGCAAC	60
15	ATATCACCAT ATTATTCGCC TGTGATCA ACCTGGAGAC CCTTAAAGA GATCATCCTT	120
	CATCATTTAT GATATAATGA ATGAATTAAT GGGAAAGAGA TTTTCTCCAA AGGACCCGGA	180
20	TGATGATAAG TTTTCAGT CAGCCATGAG CATATGCTCA TCTCTCAGAG ATCTAGAACT	240
	TGCCTACCAA GTACATGGCC TTTTAAAAC CGGAGACAAC TGGAAATTCA TTGGACCTGA	300
	TCAACATCGT AATTCTATT ATTCCAAGTT CTTGATTG ATTTGTCTAA TGGAACAAAT	360
25	TGATGTTACC TTGAAGTGGT ATGAGGACCT GATACCTTCA GCCTACTTTC CCCACTCCCA	420
	AACAATGATA CATCTCTCC AAGCATTGGA TGTGCCAAT CGGCTAGAAG TGATTCTAA	480
	AATTGGGAA AGATAGTAAA GAATATGGTC ATACTTCCG CAGTGACCTG AGAGAAGAGA	540
30	TCCTGATGCT CATGGCAAGG GACAAGCACC CACCAGAGCT TCAGGTGGCA TTTGCTGACT	600
	GTGCTGCTGA TATCAAATCT GCGTATGAAA GCCAACCAT CAGACAGACT CCTCAGGATT	660
35	GGCCAGCCAC CTCTCTCAAC TGTATAGCTA TCCTCTTTT AAGGGCTGGG AGAACTCAGG	720
	AAGCCTGGAA AATGTTGGGG CTTTCAGGA AGCATAATAA GATTCTAGA AGTGAGTTGC	780
40	TGAATGAGCT TATGGACAGT GCAAAAGTGT CTAACAGCCC TTCCAGGCC ATTGAAGTAG	840
	TAGAGCTGGC AAGTGCCTTC AGCTTACCTA TTGTGAGGG CCTCACCCAG AGAGTAATGA	900
	GTGATTTGCA AATCAACCAG GAACAAAAGG AAGCCCTAAG TAATCTAACT GCATTGACCA	960
45	GTGACAGTGA TACTGACAGC AGCAAGTGACA GCGACAGTGA CACCAAGTAA CGCAAATGAA	1020
	AGTGGAGATT CAGGAGCAGC AATGGTCTCA CCATAGCTGC TGGAATCACA CCTGAGAACT	1080
	GAGATATACC AATATTTAAC ATTGTTACAA AGAAGAAAAG ATACAGATTT GGTGAATTG	1140
50	TTACTGTGAG GTACAGTCAG TACACAGCTG ACTTATGTAG ATTTAAGCTG CTAATATGCT	1200
	ACTTAACCAT CTATTAATGCC ACCATTAAAG GCTTAGCATT TAAGTAGCAA CATTGCGGTT	1260
55	TTCAGACACA TGGTGAGGTC CATGGCTTT GTCATCAGGA TAAGCCTGCA CACCTAGAGT	1320
	GTCGGTGAGC TGACCTCACG ATGCTGCTCT CGTGCGATTG CCCTCTCCTG CTGCTGGACT	1380
60	TCTGCCCTTG TTGGCCTGAT GTGCTGCTGT GATGCTGGTC CTTCATCTTA GGTGTTCATG	1440

	CAGTTCTAAC ACAGTTGGGG TTGGGTCAAT AGTTTCCAA TTTCAGGATA TTTCGATGTC	1500
	AGAAATAACG CATCTTAGGA ATGACTAAC AAGATAATGG CAGTTAGGC TGACACAAGTG	1560
5	GTAAAATGAC TGTAGATAAA TGTTGTAATT AGTGTACACG TTTGTATTT TGTTAATATA	1620
	GCCGCTGCCA TAGTTTCTA ACTTGAACAG CCATGAATGT TTCATGTCTC CCTTTTTTTT	1680
10	TTCATATAG CTGTTACCTA TTTTAGTGGT TGAAATGAGA GCTAGTGATG ACAGAAGGAT	1740
	GTGGAATGTC TTCTTGACAT CATTGTTAT TGCTGGTAAT CAAGTTGGTA ACGACTACTT	1800
	CTAGCAGCTC TTACCACTAT GACTTAAGTG GTCCTGGAAG CCAGTAAGTG GAGGTTTGCA	1860
15	GCATTCCCTGC CTTCATGAGG GCTTCTACCA CTGACCACTT TGCACGTACC TGGCTCCCAG	1920
	ATTTACTTAG GTACCCCCACG AGTCGTCCAC ATAAGCAGCT TCATCTTTAC CTGCCAGAG	1980
20	TTGACAATTA TGGGATACTC TAGTCTACTT ATACTTGTGT TCCCATCTGT CTGCCATCCT	2040
	CTGAAGGCCA GGACCCAGTC ATACATCCTT AGAAACCAA GTATGGTTT TGTTTCTCT	2100
	TGGAATGTCA GGTCTTAAGG CATTAAATTG AGGGACAAAA AAAAAAAA CCCGATATAG	2160
25	TAGCTAGCTA CTTAACGATC CATGGTATT GCTCCATATC AAAGCAGATT TCCAGGACAG	2220
	AAAGAGTAAA TTAGCCTTCA GTCTGGTTT ACAGCTTCCA AGGAGAGCCT TGGSCACCTG	2280
30	AAATGTTAAC TCGGTCCCTT CCTGTCCTA GTTCATCAGC ACCIGCAGAT GCCTGACTCT	2340
	TGTTAGCCTT ACTATTCAAT ACAGTCCTTA GATTACCGGT ATGCCTCTTC CTATCCAGGC	2400
	ACCTATTCTG AATCACCATG TTGCTCTGCA CCTAGAGTTG ATAGGAGAAA ATCCATTGG	2460
35	GTAGATGGCC TATGAATTG TAGTAGACTT TCAAAATGAG TGATTGTTA GCTTGGTACT	2520
	TTTAAGTTTG TGGTACAGAT CCTCCAAACC CATACTCTGA GCAATTAAC GCCTTGAACA	2580
40	TAGAGAAAAA TTAAGGCCTC ACAGGATGAG TCTCCATTCT CTGTAATGC TTATTTTATC	2640
	ATAGTCCTTA GCCTCTAACT ATGAGTAAA TGTTCTCTTC GGCGGGTGT GGTGACTCAC	2700
	ACCTGTAAACC TCAGCACTTT GGGAGGCAGA GGTGGGAGGA TCACCTAGGT CCAGGAGTTC	2760
45	GAGACTAGCC TGGGCAACAT AGTGAGACAC CGGATCTACA AAAAAATAAA AAGCCAGACT	2820
	GGTGGTATGT ATCTGTGTCC CAGCTAATTG GGAGGGTGAG ATGGGAGGAT TGTTGAGCC	2880
50	TAGGAGAGGG AGGTTGCAGT GAGCCGTGAT CGCACCACTG CACTCCAGCC TGGGCAACAG	2940
	AGCAAGACCC TGTCTTGGAG AAACCAGAAT TTTGGAAGAG CAAATGGGGC TGAGTGCAGT	3000
	GGCTCATGCC TGTAATCC	3018

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(2) INFORMATION FOR SEQ ID NO: 221:

60 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 968 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

GGCACGAGGG	CCCGGGGACA	TCCACGGGC	GCGAGTGACA	CGCGGGAGGG	AGAGCAGTGT	60	
10	TCTGCTGGAG	CCGATGCCAA	AAACCATGCA	TTTCTTATTC	AGATTCAATTG	TTTTCTTTTA	120
	TCTGTGGGC	CTTTTTACTG	CTCAGAGACA	AAAGAAAGAG	GAGAGCACCG	AAGAAGTGAA	180
15	AATAGAAGTT	TTGCATCGTC	CAGAAAAGTG	CTCTAAAGACA	ACCAAGAAGG	GAGACCTACT	240
	NAAATGCCCA	TTATGACGGC	TACCTGGCTA	AAGACGGCTC	GAAATTCTAC	TCCAGCCGGA	300
	CACAAAATGA	AGGCCACCCC	AAATGGTTTG	TTCTTGGTGT	TGGGCAAGTC	ATAAAAGGCC	360
20	TAGACATTGC	TATGACAGAT	ATGTGCCCTG	GAGAAAAGCG	AAAAGTAGTT	ATACCCCTT	420
	CATTTCATA	CGGAAAGGAA	GGCTATGCA	AAGGCAAGAT	TCCACCGGAT	GCTACATTGA	480
25	TTTTGAGAT	TGAACTTTAT	GCTGTGACCA	AAGGACCAAG	GAGCATTGAG	ACATTTAAC	540
	AAATAGACAT	GGACAATGAC	AGGCAGCTCT	CTAAAGCCGA	GATAAACCTC	TACTTGCAAA	600
	GGGAATTGAA	AAAAGATGAG	AAGCCACGTG	ACAAGTCATA	TCAGGATGCA	TTTTTAGAAG	660
30	ATATTTTAA	GAAGAATGAC	CATGATGGTG	ATGGCTTCAT	TTCTCCCAAG	GAATACAATG	720
	TATACCAACA	CGATGAACTA	TAGCATATT	GTATTTCTAC	TTTTTTTTT	TAGCTATTTA	780
35	CTGTACTTTA	TGTATWAAAC	AAAGTCMCTT	TTCTCCMAGT	TGKATTTGCT	ATTTTTCCCC	840
	TATGAGAAGA	TATTTGATC	TCCCCAATAC	ATTGATTTTG	GTATAATAAA	TGTGAGGCTG	900
	TTTTGCAAAC	TTAAAAAAA	ATTTAAAAAA	ACTGGAGGGG	GGCCCGTACC	CAANTCGCCG	960
40	NATATGAT						968

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(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1404 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

55	CGTTTCCGG	CCGTGCGTTT	GTGGCCGTCC	GGCCTCCCTG	ACATGCAGCC	CTCTGGACCC	60
	CGAGGTTGGA	CCCTACTGTG	ACACACCTAC	CATGCGGACA	CTCTTCAACC	TCCTCTGGCT	120
60	TGCCCTGGCC	TGCAGCCCTG	TTCACACTAC	CCTGTCAAAG	TCAGATGCCA	AAAAAGCCG	180

CTCAAAGACG	CTGCTGGAGA	AGAGTCAGTT	TTCAGATAAG	CCGGTGCAAG	ACCGGGTTT	240	
GGTGGTGACG	GACCTCAAAG	CTGAGAGTGT	GGTTCTTGAG	CATCGCAGCT	ACTGCTCGC	300	
5	AAAGGCCCCG	GACAGACACT	TTGCTGGGA	TGTACTGGC	TATGTCACTC	CATGGAACAG	360
CCATGGCTAC	GATGTCACCA	AGGTCTTGG	GAGCAACTTC	ACACAGATCT	CACCCGTCTG	420	
10	GCTGCAGCTG	AAGAGACGTG	GCCGTGAGAT	GTTTGAGGTC	ACGGGCTCC	ACGACGTGGA	480
CCAAGGGTGG	ATGCGAGCTG	TCAGGAAGCA	TGCCAAGGGC	CTGCACATAG	TGCTCGGCT	540	
CCTGTTGAG	GACTGGACTT	ACGATGATTT	CCGGAACGTC	TTAGACAGTG	AGGATGAGAT	600	
15	AGAGGAGCTG	AGCAAGACCG	TGGTCCAGGT	GGCAAAGAAC	CAGCATTTCG	ATGGCTTCGT	660
GGTGGAGGTC	TGGAACCAGC	TGCTAAGCCA	GAAGCGCGTG	GGCCTCATCC	ACATGCTCAC	720	
20	CCACTTGGCC	GAGGCTCTGC	ACCAGGCCG	GCTGCTGCC	CTCCTGGTCA	TCCCGCCTGC	780
CATCACCCCC	GGGACCGACC	AGCTGGGCAT	GTTCACGCAC	AAGGAGTTTG	AGCAGCTGGC	840	
CCCCGTGCTG	GATGGTTCA	GCCTCATGAC	CTACGACTAC	TCTACAGCGC	ATCAGCCTGG	900	
25	CCCTAATGCA	CCCCTGTCCT	GGGTTCGAGC	CTGCGTCCAG	GTCCTGGACC	CGAAGTCAA	960
GTGGCGAACG	AAAATCCTCC	TGGGGCTCAA	CTTCTATGGT	ATGGACTACG	CGACCTCAA	1020	
30	GGATGCCGT	GAGCCTGTTG	TCGGGGCCAG	GTACATCCAG	ACACTGAAGG	ACCACAGGCC	1080
CCGGATGGTG	TGGGACAGCC	AGGYCTCAGA	GCACCTCTC	GAGTACAAGA	AGAGCCGCAG	1140	
TGGGAGGCAC	GTCGTCTTCT	ACCCAACCCT	GAAGTCCCTG	CAGGTGCGGC	TGGAGCTGGC	1200	
35	CCGGGAGCTG	GGCGTTGGGG	TCTCTATCTG	GGAGCTGCC	AGGGCCTGGA	CTACTTCTAC	1260
GACCTGCTCT	AGGTGGGCAT	TGCGGCCCTCC	GCGGTGGACG	TGTTCTTTTC	TAAGCCATGG	1320	
40	AGTGAGTGAG	CAGGTGTGAA	ATACAGGCCT	NCACTCCCTT	TGCTGTGAAA	AAAAAAAAAA	1380
AAAAA	AAAAA	AAAA				1404	

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(2) INFORMATION FOR SEQ ID NO: 223:

(i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 707 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

55	NGCGCGCCTG	CAGTCGACAC	TAGTGGATCC	AAAGAATTG	GCACGAGGGC	AGGTCCAGGG	60
CTCAGAAATC	AGCTCTATTG	ACGAATTCTG	CCGCAAGTTC	CGCCTGGACT	GCCCGCTGGC	120	
60	CATGGAGCGG	ATCAAGGAGG	ACCGGCCCAT	CACCATCAAG	GACGACAAGG	GCAACCTCAA	180

CCGCTGCATC	GCAGACGTGG	TCTCGCTCTT	CATCACGGTC	ATGGACAGAC	TGGCCCTGGA	240	
5	GATCCCGGCC	ATGGATGAGA	TCCAGCCCGA	CCTGGAGAG	CTGAGCTGAA	CCATGGACCG	300
CATGAGGCCAC	CTCCCACCCG	ACTTGTGGG	CCGCCAGACG	GTGAGCCAT	GGCTCCAGAC	360	
CCTGAGCGGC	ATGTCGGCGT	CAGATGTGCT	GGGCGAGTC	CAGGTGGCTC	AGATGCTGTT	420	
10	CGACCTGGAG	TCAGCCTACA	ACGCCCTCAA	CCGCTTCTG	CATGCCCTGAG	CCGGGGCAC	480
TAGCCCTTGC	ACAGAAGGGC	AGAGTCTGAG	CCGATGGCTC	CTGGTCCCT	GTGCGCCACA	540	
15	CAGGCCGTGG	TCATCCACAC	AACTCACTGT	CTGGAGCTGC	CTGTCCTGTTG	TCTGCTTTG	600
GTGTCAGAAC	TITTTGGGCGG	GGCCCCCTCCC	CACAAATAAG	ATGCTCTCCG	ACCTTCAAAAA	660	
20	AAAAAAAAAA	AAAAAACTCRG	GGGGGGGCCCG	GTCCCCATCC	CCCCNNNN	707	

(2) INFORMATION FOR SEQ ID NO: 224:

25	(i) SEQUENCE CHARACTERISTICS:						
	(A) LENGTH: 1384 base pairs						
	(B) TYPE: nucleic acid						
	(C) STRANDEDNESS: double						
	(D) TOPOLOGY: linear						
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:						
	GGGAACTGC	AGTGACAGCA	GGAGTAAGAG	TGGGAGGCAG	GCAGAGCTTG	GGACACAGGT	60
35	ATGGAGAGGG	GGTTCAAGCGA	GCCTAGAGAG	GGCAGACTAT	CAGGGTGGCG	GCCTTGAGAA	120
	TCCAGGGAGA	GGAGCGGAAA	CAGAGAGGG	GCAGAGACC	GGGGCAATTG	TGGTTGCAG	180
40	AGCCCCTCAG	CCATGTTGGG	AGCCAAAGCCA	CTTGGCTAC	CAGGTCCCT	ACACAGTCAC	240
	GGGCTGCCCT	TGGTTCTGGT	GCTTCTGGC	CTGGGGCCG	GTGGGGCCA	GGGGGGTCA	300
	GAGCCCGTCC	TGCTGGAGGG	GGAGTGCCTG	GTGGTCTGTG	ACCTGGCCG	ACCTGCTGCA	360
45	GGGGGGCCCG	GGGGAGCAGC	CCTGGGAGAG	GCACCCCTG	GGCGAGTGGC	ATTTGCTGCG	420
	GTCCGAAGCC	AMCACCATGA	CCCAAGCAGGG	GAACCGCGCA	ATGGCAACAK	TGGGCCATC	480
50	TACTTCGACC	AGGTCTCTGGT	GAACGAGGGC	GGTGGCTTTG	ACCGGGCTTC	TGGCTCTTC	540
	GTAGCCCCCTG	TCCGGGGTGT	CTACAGCTTC	CGGTTCCATG	TGGTGAAGGT	GTACAACCGC	600
	CAAACGTGCC	AGGTGAGCCT	GATGCTGAAC	ACGTGGCTG	TCATCTGAGC	CTTGGCCAAT	660
55	GATCCTGACG	TGACCCGGGA	GGCAGGCCACC	AGCTCTGTG	TACTGCCCTT	GGACCCCTGGG	720
	GACCGAGTGT	CTCTGCGCCT	GGGTGGGGGG	AACTCTACTGG	GTGGTTGGAA	ACACATCAAGT	780
60	TTCTCTGGCT	TCCTCATCTT	CCCTCTCTGA	GGACCCAACT	YTTTCAAGCA	CAAGAATCCA	840

	GCCCCCTGACA ACTTTCTTCT GCCTCTCTT GCCCCAGAAA CAGCAGAGGC AGGAGAGAGA	900
	CTCCCTCTGG YTCCATACCC ACYTCTTGC ATGGGAMCCT GTGCCAAACA CCCAAGTTA	960
5	AGARAARARY ARARCTGWGG CAGGTATACA GAGCTGGAAG TGGACCATGG AAAACATSGA	1020
	TAACCATGCA TCYTCTTGCT TGGCCACCTC CTGAAAATGT CCACCTTGAG AGTTTGAAC	1080
	TTAGTCCTC CAMACTCTGA CTGCTGCCCTC CTTCCTCCCA GCTCTCTCAC TGAGTTATYT	1140
10	TCACTGTACC TGTTCCAGCA TATCCCCACT ATCTCTCTT CTCTGATCT GTGCTGTCTT	1200
	ATTCTCCCTC TTAGGCTTCC TATTACCTGG GATTCATGA TTCATTCTT CAGACCCCTCT	1260
15	CCTGCCAGTA TGCTAAACCC TCCCTCTCTC TTTCTTATCC CGCTGTCCCA TTGGCCCAGC	1320
	CTGGATGAAT CTATCAATAA AACAACCTAGA GAATGGTGGT CAAAAAAA AAAAAAAAC	1380
	TCGA	1384
20		

(2) INFORMATION FOR SEQ ID NO: 225:

25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 760 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:	
35	GGGTGACCC ACGCGTCCGC TGACCAAGTCC GTTATAGATA CTTCTTCCTA TACCAAAACT	60
	GTTTAAACAG GTGCCACCAC AAGGGATGTC GTCCCTACTC TCTGCGGGTC TTCAAGCATC	120
	CCTTTGTGGG AAARGTCTCT GGGCAAGCAC GTGGTATTG GTCTGCTGCT TGCTTCCCTT	180
40	TTTCCACCAAG GGATGTTGTG ATCATAAGTC AAAACAACAG TATATCCAA ATCTCAAAAG	240
	CTATTGTGGC CTGAGCACAA TTGAAATCTA GCAGAGTTTT TCCTATGTAG CTTTAGAGTA	300
	ACTCTCTGC TTCTCTGTCA CTTACAATTC AGGTTCTGCC TTTGCCTAAC AGCATGAGCA	360
45	GAAGAGTCCT CATGTGACGC TTAGTTCTAT TGCACTCCTG GGTGAAACTA TTTAAGCWAT	420
	GGGGCTGCTK CTCCCCANWT CCTCCCTAAC AATTGTTGT GTGGACTTCT CATCTAAAAG	480
50	GTTAGGGCT TTTGCTTGGG ATCAGTGCTC TCTATTGATG TTCTTGCTGG TCTCCAGACA	540
	CATTCTGTGTT GCATTAAGAC TTGAAAGACT TGTAGATGTG TGATGTTCAAG GCACAGGATG	600
	CTGAAAGCTA TGTTACTATT CTTAGTTGT AAATTGTCCT TTTGATACCA TCATCTTGTT	660
55	TTCTTTTGT AGGTATAAAT AAAACACTG TTGACAATAA AAAAAAAA AAAAAAAA	720
	AAAAAAA AAAAAAAA NAAAAAAA AAAAAAAA	760

(2) INFORMATION FOR SEQ ID NO: 226:

5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 2057 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:	
15	CCGAGCCGGC TGCGCCGGGG GAATCCGTGC GGGGCCCTTC CGTCCCRGTC CCATCCTCGC	60
20	CGCGCTCCAG CACCTCTGAA GTTTTGCAGC GCCCAGAAAG GAGGGAGGA AGGAGGGAGT	120
25	GTGTGAGAGG AGGGAGCAAA AAGCTCACCC TAAAACATTT ATTTCAAGGA GAAAAGAAAA	180
30	AGGGGGGGCG CAAAAATGGC TGGGGCAATT ATAGAAAACA TGAGCACCAA GAAGCTGTGC	240
35	ATTGTTGGTG GGATTCTGCT CGTGTCCAA ATCATCGCCT TTCTGGTGGG AGGCTTGATT	300
40	GCTCCAGGGC CCACAAACGGC AGTGTCTAC ATGTCGGTGA AATGTGTGGA TGCCCGTAAG	360
45	AACCATCACA AGACAAAATG GTTCGTGCCT TGGGGACCCA ATCATTGTGA CAAGATCCGA	420
50	GACATTGAAG AGGCAATTCC AAGGGAAATT GAAGCCAATG ACATCGTGTGTT TTCTGTTCAC	480
55	ATTCCCCCTCC CCCACATGGA GATGAGTCCT TGGTTCCAAT TCATGMTGTT TATCCTGCAG	540
60	CTGGACATTG CCTTCAAGCT AAACAACCAA ATCAGRGAAA ATGCAGAACT CTCCATGGAC	600
	GTTCCTCTGG CTTACCGTGA TGACCGTMTT GCTGAGTGGGA CTGAAATGGC CCATGAAAGA	660
	GTACCAACGGA AACTCAAATG CACCTTCACA TCTCCCAAGA CTCCAGAGCA TGGAGGGCCG	720
	GTACTATGA ATGTGATGTC CTTCTTTCA TGGAAATTGG GTCTGTGGCC CATGAAGTTT	780
	TACCTTTAA ACATCCGGCT GCCTGTGAAT GAGAAGAAGA AAATCAATGT GGGAAATTGGG	840
	GAGATAAAGG ATATCCGGTT GGTGGGGATC CACCAAAATG GAGGCTTCAC CAAGGTGTGG	900
	TTTGCATGA AGACCTTCCT TACGCCAGC ATCTTCATCA TTATGGTGTG GTATTGGAGG	960
	AGGATCACCA TGATGTCCCG ACCCCCCAGTG CTTCTGGAAA AAGTCATCTT TGCCCTTGGG	1020
	ATTTCCATGA CCTTTATCAA TATCCCAGTG GAATGGTTTT CCATCGGGTT TGACTGGACC	1080
	TGGATGCTGC TGTTTGGTGA CATCCGACAG GCATCTTCTA TGCRATGCTT CTKTCCTTCT	1140
	GGATCATCTT CTGTGGCGAG CACATGATGG ATCAGCACGA GCGGAACAC ATCGCAGGGT	1200
	ATTGGAAGCA AGTCGGACCC ATTGCCGTG GTCCCTCTGC CTCTCATAT TTGACATGTG	1260
	TGAGAGAGGG GTACAACCTCA CGAATCCCTT CTACAGTATC TGGACTACAG ACATGGGAA	1320
	CAGAGCTGGC CATGGCTTTC ATCATCGTGG CTGGAATCTG CCTCTGCCTC TAACTTCCTG	1380
60	TTTCTATGCT TCATGGTATT TCAGGTGTTT CGGAACATCA GTGGGAAGCA GTCCAGCCTG	1440

15	CCAGCTATGA GCAAATTCGG CGGGCTACAG TATGAGGGGC TAAATTTTAG GTTCAAGTTC	1500
	CTCAGGTTA TCAACCTTGGC TTGCGCTGCC ATGACTGTCA TCTTCTTCAT CGTTAGTCAG	1560
10	GTAACTGGAG GCGATGGGA ATGGGGGGG CGTCACACAGC CGAAGTGAAC AGTGCCTTT	1620
	TCAGGGGT CTATGGGAGG TGGAAATCTGT ATGCTTTCG TCTGATGTC TTGTATGCAC	1680
15	CATCCCTAA AACATATGGA GAGACCACT CGATGGAT GCAACTCCCA TGTAAATCGA	1740
	GGGAGAGTTG TGCCTTGTGTT GTTTCGGAAC TTATCAGA ATTGTTCAAGC GCTTCGAAAT	1800
20	ATTCCTTCAATGACAGC CGGGCTTGGT GATTTGAGT CAAACAGGCA ACACATGTTT	1860
	ATCAGGTTTG CATTGGAGT TTGACAGTC ACATTTGTTG TACTTGTATA CGCACACAAA	1920
	TACACTCATT TACCTTTAT CTGAAATCT TAAATACAGG GAAAAAAGCG TCAACAATAA	1980
	ATATTTCTTG AATAATGTC TACTTCTCTT AAAAAAAA AAAAAAAACTC GTGCCGAATT	2040
	CGGCCACGAGC CGGACGA	2057

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(2) INFORMATION FOR SEQ ID NO: 227:

30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 2084 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:	
	GGCAGAGGGG CTTTCTCTGC AAGAGGCCAA ACCGGCAATTC CCTCTGTGCCCT CTCCCTCTCCC	60
	ACCAAGTCTT TTATTAATTT AGCTCTTGTGTT ACCGGAAATA ACTGTTCAATT TTTCACTCCT	120
40	CCCTCCTAGG TCACTCTTTT CAGAAAGAA ATCTGGATCC TGGAAACCAG AAGAAAATA	180
	TGAGACGGGG AATCTACGTG TGATGTGTGT SCTGCCTTGG GCTGAGTGTG TGGAGTCCTG	240
45	CTCAGGTGTT AGGTACAGTG TGTTTGATCG TGGTGGCTTG AGGGGAACCG CTTGTTCAAGA	300
	GCTGTGACTG CGGGCTCACT GCAAGAGAATC TGCCCTTGGC TGCTCGTAGC GCCGGGCCCT	360
	CTCTCCTCTGT CAGCTTCCAG ACCAGGCCAT GTCCGGGAGG CAGAAGGTAC CGGGGCAGCT	420
50	ACTGGAGGGAC TGTGCGGGCC TCCCTGGGTG GCCCCCTCCG CCGTGGGGCC CTGTTGCTGC	480
	TGTCCATCTA TTTCATCTAC TCCCTCCCAA ATGCGGTGG CCCGGCCCTTC ACTTGGATGC	540
55	TTGCCCTCTCT GCAGGCAGTG AACATCCTCC TGGGCTCAA GGGCCTGGCC	600
	CCAGCTGAGA TCTCTCGAGT GTGTGAATTA GGGAAATTCA ACGTGGCCCA TGGGCTGGCA	660
	TGGTCATATT ACATCGGATA TCTGCGGGTG ATCCTGGCGAG AGCTCCAGGC CGGGATTCGA	720
60	ACTTACAAATG AGCATTAACAA CAACTGCTA CGGGGTGGAG TGAGCCAGCG GTGTNATATT	780

	CTCCTCCCAT TGGACTGTGG GGTGCCTGAT AACCTGAGTA TGGCTGACCC CAACATTCGC	840
5	TTCCTGGATA AACTGCCCA GCAGACCGGT GACCGTGCTG GCATCAAGGA TCGGGTTTAC	900
	AGCAACAGCA TCTATGAGCT TCTGGAGAAC GGGCAGGGGG CGGGCACCTG TGTCTGGAG	960
	TACGCCACCC CCTTGCAGAC TTTGTTGCC ATGTCACAAT ACAGTCAAGC TGGCTTTAGC	1020
10	GGGGAGGATA GGCTTGAGCA GCCAAACTC TTCTGCCGA CACTTGAGGA CATCCTGGCA	1080
	GATGCCCTG AGTCTCAGAA CAACTGCCGC CTCATTGCCT ACCAGGAACC TGCAGATGAC	1140
15	AGCAGCTTCT CGCTGTCCC GGAGGTTCTC CGGCACCTGC GGCAGGAGGA AAAGGAAGAG	1200
	GTTACTGTGG GCAGCTTGAA GACCTCAGCG GTGCCAGTA CCTCCACGAT GTCCAAGAG	1260
	CCTGAGCTCC TCATCAGTGG AATGGAAAAG CCCCTCCCTC TCCGCACGGA TTTCTCTTGA	1320
20	GACCCAGGGT CACCAGGCCA GAGCCTCCAG TGGCTCCAA GCCTCTGGAC TGGGGGCTCT	1380
	CTTCAGTGGC TGAATGTCCA GCAGAGCTAT TTCCCTCCAC AGGGGGCTT GCAGGGAAGG	1440
25	GTCCAGGACT TGACATCTTA AGATGCGTCT TGTCCCCTTG GGCCAGTCAT TTCCCTCTC	1500
	TGAGCCTCGG TGTCTTCAAC CTGTGAAATG GGATCATAAT CACTGCCCTTA CCTCCCTCAC	1560
	GGTTGTTGTG AGGACTGAGT GTGTGGAAGT TTTTCATAAA CTTTGGATGC TAGTGTACTT	1620
30	AGGGGTGTG CCAGGTGTCT TTCAATGGGC CTTCCAGACC CACTCCCCAC CCTCTCTCCC	1680
	TTCCCTTGCC CGGGGACGCC GAACTCTCTC AATGGTATCA ACAGGCTCCT TCGCCCTCTG	1740
35	GCTCCTGGTC ATGTTCCATT ATTGGGGAGC CCCAGCAGAA GAATGGAGAG GAGGAGGAGG	1800
	CTGAGTTTGG GGTATTGAAT CCCCCGGCTC CCACCCCTGCA GCATCAAGGT TGCTATGGAC	1860
	TCTCCTGCCG GGCAACTCTT GCGTAATCAT GACTATCTCT AGGATTCTGG CACCACTTCC	1920
40	TTCCCTGGCC CCTTAAGCCT AGCTGTGTAT CGGCACCCCC ACCCCACTAG AGTACTCCCT	1980
	CTCACTTGGCG GTTTCTTAT ACTCCACCCC TTTCTCAACG GTCCCTTTTT AAAGCACATC	2040
45	TCAGATTAAA AAAAAAAA AAAAAAAA AGGGGGGCN GCNT	2084

(2) INFORMATION FOR SEQ ID NO: 228:

50

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2143 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

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TCGACCCACG CGTCCGGTTC AATTCCCTTGA CCTGCAAACA CATATTTATT AGCCTGACTC

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AAACAATGAA	GCTATTAAAA	CTTCGGAGGA	ACATTGAAA	ACTCTTTG	TATCGCATT	120	
TCACCAACAC	GCTTATTTG	GCAGTGGCAG	CATCCATTGT	GTTTATCATC	TGGACAACCA	180	
5	TGAAGTTCAG	AATACTGACA	TGTCAGTCGG	ACTGGCGGA	GCTGTGGTA	GACGATGCCA	240
	TCTGGCGCTT	GCTGTTCTCC	ATGATCCTCT	TTGTCATCAT	GGTCTCTGG	CGACCATCTG	300
10	CAAACAACCA	GAGGTTTGCC	TTTCACCAT	TGTCTGAGGA	AGAGGAGGAG	GATGAACAAA	360
	AGGAGCCTAT	GCTGAAAGAA	AGCTTTGAAG	GAATGAAAT	GAGAAGTACC	AAACAAGAAC	420
	CCAATGGAAA	TAGTAAAGTT	AACAAAGCAC	AGGAAGATGA	TTTGAAGTGG	CTAGAAGAGA	480
15	ATGTTCCCTTC	TTCTGTGACA	GATGTAGCAC	TTCCAGCCCT	TCTGGATTCA	GATGAGGAAC	540
	GAATGATCAC	ACACTTTGAA	AGGTCCAAA	TGGAGTAAGG	AATGGGAAGA	TTTGCAGTTA	600
20	AAGATGGCTA	CCATCAGGGA	AGAGATCAGC	ATCTGTGCA	GTCTTCTGTA	CGGCTCCATG	660
	GGATTAAGG	AAGCAATGAC	ATCCTGATCT	GTTCCCTGAT	CTTTGGCAT	TGGAGTTGGC	720
	GAGAGGTGTC	AGAACAAAGA	GAACATCTTA	CTGAAAACAA	GTTCATAAGA	TGAGAAAAAT	780
25	CTACGAGCTT	CTTATTTACA	ACACTGCTGC	CCCCTTCCCT	CCCAGACTCT	GACATGGATG	840
	TTCATGCAAC	TTAAGTGTGT	TGTTCCGTGAA	CTTTCTGAA	TGTTTCATT	TTAAATCTG	900
30	ACAAACTAAA	AAGTTTAACG	TCTTCTAAAAA	GATTGTCATC	AACACCATAA	TATGTAATCT	960
	CCAGGAGCAA	CTGCCTGTAA	TTTTTATTTA	TTTAGGGAGT	TACATAGGTG	ATGGGGAAA	1020
	TTGTTAACTA	CCTTCATTT	TCCTGGGAAG	TCAAGGTTAC	ATCTTGCAGA	GGTTGTTTG	1080
35	AGAAAAAAGG	GCCCTTCTGA	GTAAAGGAGC	CATAGTTCTA	TCAATGATCA	AAAGAAAAAA	1140
	AAAAAAAAGA	GAAACTGTTA	CAGTATGATT	CAGATCATTT	AAAAAAAGCA	AATCAAGTGC	1200
40	AATTTTGT	ACAAATGGTG	TATATTAAAG	ATTTTCTAT	TTCAGATGTA	CTTTAAAGAG	1260
	AAATATTAGC	TTAACTCTTT	TGACATCTGC	TATTGTGACA	CATCCCATTG	CTGGCAATGT	1320
	GGTGCACACT	CCGAAACTTT	TAACTACTGT	TTTGTAAGCC	TCCAAGGGTG	GCATTGCAGG	1380
45	GTCCTTAGGC	AATGTTTGT	TTGCCTTAT	GCAGAGAGGT	GCTCCAAGTG	CTGTGATTGA	1440
	GCACCGTGCT	AGAGGAACGT	TAATGCTTCA	GAAGTGTAG	CTTATACAAA	GGAAACAGGT	1500
50	CCTGCTGGCT	TAATTTAAC	AGTTATTGCA	TGAAGTAGCG	TGGAGGCCCT	CGACTGCTGC	1560
	TCGTTCTTTA	GGATGGACTG	TTCTGGTATC	TGGTATTGGT	TTAGAGACTG	TTAATAAGGG	1620
	ACATCACAAG	GTGATGGGAT	TCATTTGAAG	CACTCTATTT	CTGTTTTAAT	GGTTTTATCC	1680
55	AATTTTGCCT	TCCCAAGATT	TTTGTCTAC	ATAAAAAGTT	CATGCCACTT	TTAATATATAA	1740
	AAAAATTAA	CAAAATTAAT	GTATTTCT	CATTTTTTC	AAACTTTTTC	TAAGACTCT	1800
60	TTCTGTCAA	CTCATGAAA	ATTCTTCT	ATGGCTTTA	TTCTAGATTG	TCTTATTTTC	1860

TGTTAAAACC	AATGACCACA	TGACCACAAT	CTTCACTAAC	TCATACTGCA	GTGAAAGTGT	1920	
TAACCCCTAG	GTAGTTTCTC	TACAACTCTT	TGCTATGGTG	ATTTTTAAAA	AAGTTTCCTA	1980	
5	GGGAAGTATC	TCTGAGGGAA	CAGGCAATCT	GAAGGAAC TG	ACTATATTCT	CCATGGCTAA	2040
	GTCCATTAGG	CCAAAAGNCT	GGGTGGGTAT	TGGTTGT CAN	GCTGTCTATT	GGCATATTAA	2100
10	AAACGTAGGC	CGGANGGAAT	AATTAGGTTG	TNATGCCGGC	GGG		2143

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(2) INFORMATION FOR SEQ ID NO: 229:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1025 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:

CCTGGCCAC	ATTCGCTTCAT	TGGCCTGGCC	ATGCGCTGT	ACTATGGCAG	CCGCTAGTCC	60	
25	CTGACAACTT	CCACCCCTGAT	TCCGGACCCT	GTAGATTGGG	CGCCACCACC	AGATCCCCCT	120
	CCCAGGCCTT	CCTCCCTCTC	CCATCAGCAG	CCCTGTAAACA	AGTGCCTGT	GAGAAAAGCT	180
30	GGAGAAAGTGA	GGGCAGCCAG	GTTATTCTCT	GGAGGTTGGT	GGATGAAGGG	GTACCCCTAGG	240
	AGATGTGAAG	TGTGGGTTTG	GTAAAGGAAA	TGCTTACCAT	CCCCCACCCC	CAACCAAGTT	300
35	CTTCCAGACT	AAAGAATTAA	GGTAACATCA	ATACCTAGGC	CTGAGAAATA	ACCCCATCCT	360
	TGTTGGCAG	CTCCCTGCTT	TGTCCTGCAT	GAACAGAGTT	GATGAAAGTG	GGGTGTGGC	420
	AACAAGTGGC	TTTCCTTGCC	TACTTTAGTC	ACCCAGCAGA	GCCACTGGAG	CTGGCTAGTC	480
40	CAGCCCAGCC	ATGGTGCATG	ACTCTTCCAT	AAGGGATCCT	CACCCCTCCA	CTTTCATGCA	540
	AGAAGGCCCA	GTTGCCACAG	ATTATAAAC	CATTACCAA	ACCACTCTGA	CAGTCTCCTC	600
45	CAGTTCCAGC	AATGCCTAGA	GACATGCTCC	CTGCCCTCTC	CACAGTGCTG	CTCCCCACAC	660
	CTAGCCTTTG	TTCCTGGAAAC	CCCAGAGAGG	GCTGGGCTTG	ACTCATCTCA	GGGAATGTAG	720
	CCCCTGGGCC	CTGGCTTAAG	CCGACACTCC	TGACCTCTCT	GTTCACCCCTG	AGGGCTGTCT	780
50	TGAAGCCCGC	TACCCACTCT	GAGGCTCCTA	GGAGGTACCA	TGCTTCCCAC	TCTGGGGCCT	840
	GCCTCTGCCT	AGCAGTCTCC	CAGCTCCCAA	CAGCCTGGGG	AAGCTCTGCA	CAGAGTGACC	900
55	TGAGACCAGG	TACAGGAAAC	CTGTAGCTCA	ATCAGTGTCT	CTTTAACTGC	ATAAGCAATA	960
	AGATCTTAAT	AAAGTCTTCT	AGGCTGTAGG	GTGGTTCTA	CAACCACAGC	CAAAAAAAA	1020
	AAAAAA						1025

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(2) INFORMATION FOR SEQ ID NO: 230:

5 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

10 10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:

CCCCACCGGT	CCGCCCACGC	GTCCGGCGGT	GCGGAGTATG	GGGCCTGAT	GGCCATGGAG	60
15 GGCTACTGGC	GCTTCCTGGC	GCYGCCTGGG	TCGGCACTGC	TCGTCGGCTT	CCTGTCGGTG	120
ATSTTCGCC	TCGTCTGGT	CCTCCACTAC	CGAGAGGGC	TTGGCTGGGA	TGGGAGGC	180
20 CTAGAGTTTA	ACTGGCACCC	AGTGCTSATG	GTCACCGGCT	TCGTCTTCAT	CCAGGGC	240
GCATCATCGT	CTACAGACTG	CCGTGGACCT	GGAAATGCAG	CAAGCTCCTG	ATGAAATCCA	300
TCCATGCAGG	GTTAAATGCA	GTTGCTGCCA	TTCTTGCAAT	TATCTCTGTG	GTGGCCGTGT	360
25 TTGAGAACCA	CAATGTTAAC	AATATAGCCA	ATATGTACAG	TCTGCACAGC	TGGGTTGGAC	420
TGATAGCTGT	CATATGCTAT	TGTTACAGC	TTCTTTCAGG	TTTTTCAGTC	TTTCTGCTTC	480
30 CATGGGCTCC	GCTTTCTCTC	CGAGCATTTC	TCATGCCAT	ACATGTTAT	TCTGGAATTG	540
TCATCTTGG	AACAGTGATT	GCAACAGCAC	TTATGGGATT	GACAGAGAAA	CTGATTTTTT	600
CCCTGAGAGA	TCCTGCATAC	AGTACATTCC	CGCCAGAAGG	TGTTTCGTA	AATACGCTTG	660
35 GCCTTCTGAT	CCTGGTGTTC	GGGGCCCTCA	TTTTTTGGAT	AGTCACCAGA	CCGCAATGGA	720
AACGTCCTAA	GGAGCCAAT	TCTACCATTTC	TTCATCCAAA	TGGAGGC	GAACAGGGAG	780
40 CAAGAGGTT	CATGCCAGCC	TACTCTGGCA	ACAACATGGA	CAAATCAGAT	TCAGAGTTAA	840
ACARTGAA	AGCAGCAAGG	AAAAGAAACT	TAGCTCTGGA	TGAGGCTGGG	CAGAGATCTA	900
CCATGTAAA	TGTTGTAGAG	ATAGAGCCAT	ATAACGTCAC	GTTTCAAAAC	TAGCTCTACA	960
45 GTTTTGCTTC	TCCTATTAGC	CATATGATAA	TTGGGCTATG	TAGTATCAAT	ATTTACTTTA	1020
ATCACAAAGG	ATGGTTCTT	GAAATAATT	GTATIGATTG	AGGCCTATGA	ACTGACCTGA	1080
50 ATTGAAAGG	ATGTGATTAA	TATAAATAAT	AGCAGATATA	AATTGTGGTT	ATGTTACCTT	1140
TATCTTGTG	AGGACCACAA	CATTAGCAGG	GTGCCTGTG	CAKAATAGAT	ACTCAATATG	1200
TGAATATGTG	TCTACTAGTA	GTTAATTGGA	AAAATGGCA	GCATCCCTGA		1250

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(2) INFORMATION FOR SEQ ID NO: 231:

60 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1811 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:

10	CAGTGGCTTT CATTCTGAAG TTCTGGATA ACATGTTCCA TGTCTTGATG GCCCAGGTTA	120
15	CCASTGTCAT TATCACAACA GTGTCTGTCC TGGTCTTGA CTTCAAGGCC TCCCTGGAAT	180
20	TTTTCTTGGAA AGCCSCATCA GTCSTYCTCT CTATATTAT TTATAATGCC AGCAAGCCTC	240
25	AAGTTCCGGA ATACGCACCT AGGCAAGAAA GGATCCGAGA TCTAAGTGGC AATCTTTGGG	300
30	AGCGTTCCAG TGGGGATGGA GAAGAACTAG AAAGACTTAC CAAACCCAAG AGTGATGAGT	360
35	CAGATGAAGA TACTTTCTAA CTGGTACCCA CATAGTTGC AGCTCTTGT AACCTTATTT	420
40	TCACATTTTC AGTGTGTTGTA ATATTTATCT TTTCACTTTG ATAAACCAGA AATGTTTCTA	480
45	AATCCTAATA TTCTTTGCAT ATATCTAGCT ACTCCCTAAA TGTTCCATC CAAGGCTTAG	540
50	AGTACCCAAA GGCTAAGAAA TTCTAAAGAA CTGATACAGG AGTAACAATA TGAAGAATTG	600
55	ATTAATATCT CAGTACTTGA TAAATCAGAA AGTTATATGT GCAGATTATT TTCTTGGCC	660
60	TTCAAGCTTC CAAAAAACTT GTAATAATCA TGTTAGCTAT AGCTTGTATA TACACATAGA	720
	GATCAATTG CCAAATATTC ACAATCATGT AGTTCTAGTT TACATGCCAA AGTCTTCCCT	780
	TTTTAACATT ATAAAAGCTA GGTTGTCCTCT TGAATTTGA GGCCCTAGAG ATAGTCATTT	840
	TGCAAGTAAA GAGCAACGGG ACCCTTTCTA AAAACGTTGG TTGAAGGACC TAAATACCTG	900
	GCCATACCAT AGATTTGGGA TGATGTAGTC TGTGCTAAAT ATTTGCTGA AGAAGCAGTT	960
	TCTCAGACAC AACATCTCAG AATTTTAATT TTTAGAAATT CATGGAAAT TGGAATTTTG	1020
	TAATAATCTT TTGATGTTTT AAACATTGGT TCCCTAGTCA CCATAGTTAC CACTTGTATT	1080
	TTAAGTCATT TAAACAAGCC ACGGTGGGGC TTTTTCTCC TCAGTTGAG GAGAAAATC	1140
	TTGATGTCAT TACTCCTGAA TTATTACATT TTGGAGAATA AGAGGGCATT TTATTTATT	1200
	AGTTACTAAT TCAAGCTGTG ACTATTGTAT ATCTTTCCAA GAGTTGAAAT GCTGGCTTCA	1260
	GAATCATACC AGATTGTCAG TGAAGCTGAT GCCTAGGAAC TTTAAAGGG ATCCTTTCAA	1320
	AAGGATCACT TAGCAAACAC ATGTTGACTT TTAACTGATG TATGAATATT AATACTCTAA	1380
	AAATAGAAAG ACCAGTAATA TATAAGTCAC TTTACAGTGC TACTTCACAC TAAAAAGTGC	1440
	ATGGTATTTT TCATGGTATT TTGCTATGAG CCAGTTAACT CTCGTAGATA GAGAAGTCAG	1500
	GTGATAGATG ATATTAAGGAA TTAGCAAACAA AAAGTGACTT GCTCAGGGTC ATGCAGCTGG	1560
	GTGATGATAG AAGAGTGGGC TTAACTGGC AGGCCTGTAT GTTTACAGAC TACCATACTG	1620

TAAATATGAG	CTTTATGGTG	TCATTCTCAG	AAACTTATAC	ATTTCTGCTC	TCCTTTCTCC	1680	
TAAGTTTCAT	GCAGATGAAT	ATAAGGTAAT	ATACTATTAT	ATAATTCACT	TGTGATATCC	1740	
5	ACAATAATAT	GACTGGCAAG	AATTGGTGGGA	AATTTGTAAT	TAAAATAATT	ATTAACCTA	1800
	AAAAAAAAN	N					1811

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(2) INFORMATION FOR SEQ ID NO: 232:

15	(i) SEQUENCE CHARACTERISTICS:						
	(A) LENGTH: 2271 base pairs						
	(B) TYPE: nucleic acid						
	(C) STRANDEDNESS: double						
	(D) TOPOLOGY: linear						
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:						
	CTGACCTCAT	GGCGTAGAGC	CTAGCAACAG	CGCAGGCTCC	CAGCCGAGTC	CGTTATGGCC	60
25	GCTGCCGTCC	CGAACAGGAT	GAGGGGGCCA	GCACAAAGCGA	AACTGCTGCC	CGGGTCGGCC	120
	ATCCAAGCCC	TTGTGGGGTT	GGCGCGGCCG	CTGGTCTTGG	CGCTCCTGCT	TGTGTCCGCC	180
30	GCTCTATCCA	GTGTTGTATC	ACGGACTGAT	TCACCGAGCC	CAACCGTACT	CAACTCACAT	240
	ATTTCTACCC	CAAATGTGAA	TGCTTTAACCA	CATGAAAACC	AAACCAAACC	TTCTATTTC	300
	CAAATCAGCA	CCACCCCTCCC	TCCCACGACG	AGTACCAAGA	AAAGTGGAGG	AGCATCTGTG	360
35	GTCCCTCATC	CCTCGCCTAC	TCCTCTGTCT	CAAGAGGAAG	CTGATAACAA	TGAAGATCCT	420
	AGTATAGAGG	AGGAGGATCT	TCTGATGCTG	AACAGTCTC	CATCCACAGC	CAAAGACACT	480
	CTAGACAATG	GCGATTATGG	AGAACCAAGAC	TATGACTGGA	CCACGGGGCC	CAGGGACGAC	540
40	GACGAGTCTG	ATNGACACCT	TGGAAGAAAA	CAGGGTTAC	ATGAAATTG	AACAGTCAGT	600
	GAAATCTTTT	AAGATGCCAT	CCTCAAATAT	AGAAGAGGAA	GACAGCCATT	TCTTTTTCA	660
45	TCTTATTATT	TTTGCTTTTT	GCATTGCTGT	TGTTTACATT	ACATATCACA	ACAAAAGGAA	720
	GATTTTTCTT	CTGGTTCAA	GCAGGAAATG	GGGTGATGGC	CTTGTGTTCA	AAACAGTGG	780
	ATACCATCGC	CTAGATCAGA	ATGTTAATGA	GGCAATGCCT	TCTTGAAGA	TTACCAATGA	840
50	TTATATTTTT	TAAAGCACTG	TGATTTGAAT	TTGCTTATGT	AATTTTATTT	GCTTGACTTT	900
	TTATATGATA	TTGTGCAAAT	TTTGCCATA	GGCAATTGGT	ACTTAAATGA	GAGGTGAGTC	960
55	TCTCTTTGTC	CTTGGTGCTT	TGGAAATTAA	ATGTCACAAA	CGAGTATATA	ATTTTTTATC	1020
	TGTACTTTTA	GAGCTGAGTT	TAATCAGGTG	TCCAAAATGT	GAGTTAAACA	TTACCTTATA	1080
	TTTACACTGT	TAGTTTTAT	TGTTTAGAT	TTATTATGCT	TCTTCTGGAA	GTATTAGTGA	1140

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TGCTACTTTT	AAAAGATCCC	AAACTTGTAA	CTAAATTCTG	ACATATCTGT	TACTGCTGAC	1200	
TCACATTCAT	TCTCCGCCAT	TCAAATACTA	TTTTTATCC	ACATTTTTT	TGTTCCCAA	1260	
5	ACTGTAATGT	ACAAGGATAT	GTGTGATAAT	GCTTGGATT	TGAGTAATAT	TTTTTTTCT	1320
TCCAAGAAA	CTGCTTTGGA	TATTTTTAGA	TAATTTAAC	ATAATTTAGG	ATAATGATAT	1380	
10	TGCTCAATCT	GACCACAATT	TTAGGTAAA	CATTAATGT	GTCAAGAAAT	CTTGGCAACA	1440
GAGACTCTGC	AGCTTGCAGT	GGACATAGAT	AAAATGTTAC	AGAGATACTA	TTTTTTGGT	1500	
TGGAATTACT	ATATTAAATT	TAGAAGCAGA	AACTGGTAAA	ATGTTAAATA	CATGTACAAT	1560	
15	TGCTTTAGT	TAGCAATTGA	TTGTAGCATG	GGTTCCCTCCA	AGGTTTCAAG	CAATGGGCAG	1620
AGTTTAAAAT	TATATCAGAT	TCGTTTACTT	CGTTTATTAT	TTTACAGTAA	ATTTGAATAA	1680	
20	ATCTTAGGGG	TCATTATCAC	TTAAATAATA	CTGTACCTAG	GTCTTCAAA	TTAAATTAT	1740
ACCTGAATGA	AGTTGTTTGT	ATACATAAAG	GATATTGTG	TACAATTACC	TTTTTCCCC	1800	
CACACTTGT	TTCTTTGTT	TTGTTTTTA	TGGCAACTGG	AAAGTATTTA	CTATGGGATT	1860	
25	CATTTATGTC	TGTCTTCTA	TCATAAAGAA	TTGATCAATA	TGAAATATG	TGATTGAAAC	1920
CATGGTTGAC	TTACAAGTGT	CACTACAGCT	TTTGTAGAAA	CATAGCCCTA	ATATATGTTA	1980	
30	AGCAGGACCC	GGGTGAGCCA	GTGGGCTTGC	GCTTATGTA	GAGCTGGAAAG	AAGGCCGTCC	2040
ATCCCTGTCTC	TTGGCGGAC	AGTGTACTTT	CCTAATAGGG	AAGGGAAGCA	CAATGGAAAT	2100	
ACCCCTGAAC	CGTTTTATTG	CAGTAATTTC	TTTCATATCT	GAAACTATTA	TTTAATATTT	2160	
35	TGAATAAGAT	TTTAAAAAAT	AAATGCCAAA	GATATAAATC	AAAAAAAAAA	AAAAAAAAAA	2220
AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAANANA	N	2271	

40

(2) INFORMATION FOR SEQ ID NO: 233:

45	(i) SEQUENCE CHARACTERISTICS:						
	(A) LENGTH: 1338 base pairs						
	(B) TYPE: nucleic acid						
	(C) STRANDEDNESS: double						
	(D) TOPOLOGY: linear						
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:						
	CTTCCGGITC	TCCGGGCAGC	TGCCACTGCT	GTAGCTTCTG	CCACCTGCCA	CGACCGGGCC	60
55	TCTCCCTGGC	GTGGTCAC	CTCTGCTTCA	TTCTCCACCG	CGCCTATGGT	CCCTCTTGGA	120
	GCCAGCGTGG	CGNGCCTGGC	GGCTCCCCGG	TGGTGAGAGA	GCGGTCCGGG	AACGATGAAG	180
	GCCTCGCAGT	GCTGCTGCTG	TCTCAGCCAC	CTCTTGGCTT	CCGTCTCCT	CCTGCTGTTG	240
60	CTGCCTGAAC	TAAGCGGGYC	CCTGGMAGTC	CTGCTGCAGG	CAGCCGAGGC	CGGCCAGGT	300

5	YTTGGCCTC CTGACCCCTAG ACCAGGACAT TACCGCCGCT GCCACCGGGC CCTWACCCCT	360
	GCCCCAGCAGC CGGGCCGTGG TCTGGCTGAA GCTGCGGGGG CCGCGGGGGCT CCGAGGGAGG	420
10	CAATGGCAGC AACCCCTGTGG CCGGGCTTGA GACGGACGAT CACGGAGGGA AGGCCGGGGA	480
	ARGCTCGGTG GGTGGCGGCC TTGCTGTGAG CCCCAACCCCT GGGGACAAGC CCATGACCCA	540
15	GCAGGGCCCTG ACCGTGTTGA TGGTGGTGAG CGGCGCGGTG CTGGTGTACT TCGTGGTCAG	600
	GACGGTCAGG ATGAGAAGAA GAAACCGAAA GACTAGGAGA TATGGAGTTT TGGACACTAA	660
20	CATAGAAAAT ATGGAATTGA CACCTTTAGA ACAGGATGAT GAGGATGATG ACAACACGTT	720
	GTGGATGCC AATCATCCTC GAAGATAAGA ATGTGCCCTT TGATGAAAGA ACTTTATCTT	780
	TCTACAAATGA AGAGTGGAAAT TTCTATGTTT AAGGAATAAG AAGCCACTAT ATCAATGTTG	840
25	GGGGGGTATT TAAGTTACAT ATATTTNAAC AACCTTTAAT TTGCTGTTGC AATAAATACC	900
	GTATCCTTTT ATTATATCTT TATATGTATA GAACTACTCT GTTAATGGGC TCAGAGATGT	960
	TGGGGATAAA GTATACTGTA ATAATTATAC TGTTTGGAAA TTACTATAAA ACGGTGTTTT	1020
30	CTGRTCGGTT TTTGTTTCCT GCTTACCATATA TGATTGTAAA TTGTTTTATG TATTAATCAG	1080
	TTAATGCTAA TTATTTTTC TGATGTCATA TGTTAAAGAG CTATAAATTC CAACAACCAA	1140
35	CTGGTGTGTA AAAATAATT AAAATYTCCT TTACTGAAAG GTATTTCCA TTTTTGTGGG	1200
	GAAAAGAAGC CAAATTATT ACTTTGTGTT GGGGTTTTA AAATATTAAG AAATGTCTAA	1260
	GTTATTGTTT GCAAAACAAT AAATATGATT TTAAATTCTC TTAAAAAAA AAAAAAAAC	1320
	CCCCGGGGGGG GCCCCGGN	1338

40

(2) INFORMATION FOR SEQ ID NO: 234:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

50	Met Leu Ser Thr Gly Ile Glu Val Ala Arg Pro Pro Ala Thr Leu Leu	
	1 5 10 15	
	Gly Leu Met Phe Val Leu Thr Gly Met Pro Arg Gly Leu Arg Xaa	
	20 25 30	

55

(2) INFORMATION FOR SEQ ID NO: 235:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 116 amino acids

(B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

5 Met Asn Val Val Ile Val Ile Ile Leu Phe Ser Phe Asp Ser Val Gly
 1 5 10 15

10 Thr Met Phe Ser Cys Asn Arg Ile Pro Lys Ile Thr Val Leu Asn Lys
 20 25 30

Leu Lys Phe Xaa Cys Glu Val Leu Leu Arg Ile Gln Thr Ile Gln Gly
 35 40 45

15 Phe Tyr Arg Cys Thr Arg Ile Ser Arg Tyr Lys Gly Ile Phe Pro Asp
 50 55 60

Phe Cys Gln Ser Gln Cys Met Gly Cys Asn Pro Glu Ser Xaa Met Ala
 65 70 75 80

20 Val Pro Ala Leu Val Thr Pro Ile Leu Ala His Arg Lys Lys Glu Lys
 85 90 95

Gly Met Cys Leu Phe Thr Leu Ile Ile Ala Pro Thr Arg Cys Thr His
 100 105 110

25 Tyr Phe Cys Xaa
 115

30 (2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 103 amino acids

35 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

40 Met Ser Ser Ala Lys Ile Val Arg Gln Arg Gly Ala Val Pro Thr Tyr
 1 5 10 15

Tyr Thr Thr Glu Ala Gly Glu Ile Ile Phe Leu Val Leu Asn Trp Ser
 20 25 30

45 Leu Ser Ile Leu His Ile Val Asp Val Leu Cys Ser Lys Pro Glu Lys
 35 40 45

Ser Val Thr Glu Asp Ala Ala Ser Gly Leu Ser Gln Arg Met Thr Ala
 50 55 60

50 Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys Pro Ile Leu
 65 70 75 80

55 Leu Leu Phe Phe Leu Pro Leu Ile Leu Cys Phe His Ser Phe Ile
 85 90 95

His Ser Ser Asn Ile Cys Xaa
 100

(2) INFORMATION FOR SEQ ID NO: 237:

(i) SEQUENCE CHARACTERISTICS:

5

- (A) LENGTH: 42 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

10 Met Ile Leu Phe Pro Gln Xaa Ala Leu Arg Leu Gly Xaa Trp Pro Arg
 1 5 10 15

Thr Trp Ser Ile Leu Xaa Lys Tyr Ser Val Asn Phe Phe Ser Ala Tyr
 20 25 30

15 Ser Pro Met Gly Ala Val Gly Thr Glu Phe
 35 40

20 (2) INFORMATION FOR SEQ ID NO: 238:

(i) SEQUENCE CHARACTERISTICS:

25

- (A) LENGTH: 37 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:

30 Met Ile Ile Leu Leu Phe Met Leu Leu Asn Asn Val Val Leu Val
 1 5 10 15

Gln Glu Asp Asn Cys Gln Arg Lys Asn Thr Val Gln Glu Arg Arg Xaa
 20 25 30

35 Trp Ser Gln Trp Xaa
 35

40 (2) INFORMATION FOR SEQ ID NO: 239:

(i) SEQUENCE CHARACTERISTICS:

45

- (A) LENGTH: 128 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

50 Met Ala Ala Xaa Pro Pro Gly Cys Thr Pro Pro Xaa Leu Leu Asp Ile
 1 5 10 15

Ser Trp Leu Thr Glu Ser Leu Gly Ala Gly Gln Pro Val Pro Val Glu
 20 25 30

55 Cys Arg His Arg Leu Glu Val Ala Gly Pro Arg Lys Gly Pro Leu Ser
 35 40 45

Pro Ala Trp Met Pro Ala Tyr Ala Cys Gln Arg Pro Thr Pro Leu Thr
 50 55 60

60 His His Asn Thr Gly Leu Ser Glu Leu Leu Glu His Gly Val Cys Glu

490

	65	70	75	80
		Glu Val Glu Arg Val Arg Arg Ser Glu Arg Tyr Gln Thr Met Lys Val		
		85	90	95

5	Arg Arg Ala Gly Leu Gly Pro Thr Pro Gly Met Ser Cys Pro Gly Asn			
	100	105	110	
		Asp Asn Thr Val His Thr Met His Gly Glu Ala Asn Arg Gly Ser Xaa		
10	115	120	125	

15

(2) INFORMATION FOR SEQ ID NO: 240:

20	(i) SEQUENCE CHARACTERISTICS:			
		(A) LENGTH: 67 amino acids		
		(B) TYPE: amino acid		
		(D) TOPOLOGY: linear		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

25	Met Ser Ile Leu Cys Cys Pro Xaa Leu Cys Leu Phe Phe Ser Phe Cys			
	1	5	10	15

	Ile Ser Ser Gly Ser Cys Pro Phe Ser His Val Ser Gln Leu Ser Phe			
	20	25	30	

30	Ile Ala Thr Phe Ser Gln Ser Ser Pro Val Leu Leu Val Pro Ala Tyr			
	35	40	45	

35	Asn Thr Tyr Leu Ser Phe Leu Ala Phe Leu Asp Cys Ala Ser Leu Thr			
	50	55	60	

	Ser Thr Xaa			
	65			

40

(2) INFORMATION FOR SEQ ID NO: 241:

45	(i) SEQUENCE CHARACTERISTICS:			
		(A) LENGTH: 69 amino acids		
		(B) TYPE: amino acid		
		(D) TOPOLOGY: linear		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

50	Met Ser Thr Phe Gln Leu Leu Leu Ile Leu Ala Gln Ser Thr Tyr			
	1	5	10	15

	Lys Ile Lys Ser Lys Pro Leu His Met Thr Asn His Thr Leu Leu Asn			
	20	25	30	

55	Ser Pro Gly Leu Asn Pro Ser Ser Pro Thr Leu Asn Phe Lys Thr Gln			
	35	40	45	

60	Gln His Glu Ser Val Ser Tyr Ala Cys Cys His Met Arg Ser Leu His			
	50	55	60	

His Ala Phe Ala Xaa
65

5

(2) INFORMATION FOR SEQ ID NO: 242:

10 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 44 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

15 Met Val Ser Val Val Leu Ile Phe Ser Phe Leu Ser Leu Thr Ile Ser
1 5 10 15

Thr Thr Ala Ser Ala Tyr Asn Gly Asn Asp Thr Gln Gly Trp Asn Asp
20 25 30

20 Lys -Phe His Xaa Xaa Ser Val Lys Thr Gln Thr Xaa
35 40

25 (2) INFORMATION FOR SEQ ID NO: 243:

30 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 51 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

35 Met Ile Ser Asp Ala Gly Ala Gly Phe Gly Val Phe Leu Leu Val Pro
1 5 10 15

Arg Ala Gly His Cys Trp Gly Ala Gly Lys Pro Leu Pro Ser Cys Pro
20 25 30

40 Ser Val Ala Ser Ile Pro Ser Trp Val Leu Pro Ser Phe Leu Glu Arg
35 40 45

Gly Arg Xaa
50

45

(2) INFORMATION FOR SEQ ID NO: 244:

50 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 43 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

55 Met Val Gln Thr Ile Gln Asp Phe Leu Ser Leu Phe Ser Thr Pro Ile
1 5 10 15

60 Phe Leu Leu Leu Met Phe Glu Thr Leu Ser Leu Ala Pro Ala Trp
20 25 30

Leu Lys Pro Leu Arg Val Thr Ser His Ser Xaa
 35 40

5

(2) INFORMATION FOR SEQ ID NO: 245:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 61 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:

15 Met Ile Leu Met Pro Gly Leu Gly Thr Ser Arg Gln Arg Ser Val Pro
 1 5 10 15

Phe Val Pro Thr Leu Asn Ala Ser Thr Pro Gly Ala Met Thr Gly Pro
 20 25 30

20 Thr Ala Thr Leu Thr Ser Cys Gln Tyr Thr Thr Ala Cys Arg Val Ser
 35 40 45

25 Trp Ala Asn Gly Trp Thr Ser Leu Arg Thr Phe Arg Xaa
 50 55 60

(2) INFORMATION FOR SEQ ID NO: 246:

30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 36 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:

Met Ser His His Ala Gln Pro Arg Phe Leu Leu Ile Thr Met Leu Leu
 1 5 10 15

40 Gln Glu Ala Lys Pro Val Ser Asn Ile Pro His Leu Leu Glu Ser Trp
 20 25 30

Tyr Phe Gly Xaa
 35

45

(2) INFORMATION FOR SEQ ID NO: 247:

50 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 39 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:

55 Met Asn Ser Leu Phe Trp Met Ile Leu Pro Val Ser Gln Asp Gln
 1 5 10 15

60 Val Val Glu Gly Leu Gln Gly Gly Phe Ser Gln Ile His Met Arg Ile
 20 25 30

Leu Arg Lys His Leu Xaa
35

5

(2) INFORMATION FOR SEQ ID NO: 248:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 211 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:

15 Met Ser Arg Ser Xaa Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala
1 5 10 15
Ala Ser Ile Tyr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala
20 25 30
20 Leu His Gln Gly Asp Ser Leu Glu Cys Thr Ala Met Thr Val Gln Ile
35 40 45
25 Leu Leu Lys Leu Asp Arg Leu Asp Leu Ala Arg Lys Glu Leu Lys Arg
50 55 60
Met Gln Asp Leu Asp Glu Asp Ala Thr Leu Thr Gln Leu Ala Thr Ala
65 70 75 80
30 Trp Val Ser Leu Ala Thr Gly Gly Glu Lys Leu Gln Asp Ala Tyr Tyr
85 90 95
Ile Phe Gln Glu Met Ala Asp Lys Cys Ser Pro Thr Leu Leu Leu
100 105 110
35 Asn Gly Gln Ala Ala Cys His Met Ala Gln Gly Arg Trp Glu Ala Ala
115 120 125
Glu Gly Leu Leu Gln Glu Ala Leu Asp Lys Asp Ser Gly Tyr Pro Glu
40 130 135 140
Thr Leu Val Asn Leu Ile Val Leu Ser Gln His Leu Gly Lys Pro Pro
145 150 155 160
45 Glu Val Thr Asn Arg Tyr Leu Ser Gln Leu Lys Asp Ala His Arg Ser
165 170 175
His Pro Phe Ile Lys Glu Tyr Gln Ala Lys Glu Asn Asp Phe Asp Arg
180 185 190
50 Leu Val Leu Gln Tyr Ala Pro Ser Ala Glu Ala Gly Pro Glu Leu Ser
195 200 205
55 Gly Pro Xaa
210

(2) INFORMATION FOR SEQ ID NO: 249:

60

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:

	Met	Glu	Asp	Ser	Glu	Ala	Leu	Gly	Phe	Glu	His	Met	Gly	Leu	Asp	Pro
1																15
10	Arg	Leu	Leu	Gln	Ala	Val	Thr	Asp	Leu	Gly	Trp	Ser	Arg	Pro	Thr	Leu
																30
	Ile	Gln	Glu	Lys	Ala	Ile	Pro	Leu	Ala	Leu	Gly	Lys	Asp	Leu	Leu	
																45
15	Ala	Arg	Ala	Arg	Thr	Gly	Ser	Gly	Lys	Thr	Ala	Ala	Tyr	Ala	Ile	Pro
																60
20	Met	Leu	Gln	Leu	Leu	Leu	His	Arg	Lys	Ala	Thr	Gly	Pro	Val	Val	Glu
																80
	Gln	Ala	Val	Arg	Gly	Leu	Val	Leu	Val	Pro	Thr	Lys	Glu	Leu	Ala	Arg
																95
25	Gln	Ala	Gln	Ser	Met	Ile	Gln	Gln	Leu	Ala	Thr	Tyr	Cys	Ala	Arg	Asp
																110
	Val	Arg	Val	Ala	Asn	Val	Ser	Ala	Ala	Glu	Asp	Ser	Val	Ser	Gln	Arg
																125
30	Ala	Val	Leu	Met	Glu	Lys	Pro	Asp	Val	Val	Val	Gly	Thr	Pro	Ser	Arg
																140
	Ile	Leu	Ser	His	Leu	Gln	Gln	Asp	Ser	Leu	Lys	Leu	Arg	Asp	Ser	Leu
35																160
	Glu	Leu	Leu	Val	Val	Asp	Glu	Ala	Asp	Leu	Leu	Phe	Ser	Phe	Gly	Phe
																175
40	Glu	Glu	Glu	Leu	Lys	Ser	Leu	Leu	Cys	His	Leu	Pro	Arg	Ile	Tyr	Gln
																190
	Ala	Phe	Leu	Met	Ser	Ala	Thr	Phe	Asn	Glu	Asp	Val	Gln	Ala	Leu	Lys
																205
45	Glu	Leu	Ile	Leu	His	Asn	Pro	Val	Thr	Leu	Lys	Leu	Gln	Glu	Ser	Gln
																220
	Leu	Pro	Gly	Pro	Asp	Gln	Leu	Gln	Gln	Phe	Gln	Val	Val	Cys	Glu	Thr
50																240
	Glu	Glu	Asp	Lys	Phe	Leu	Leu	Leu	Tyr	Ala	Leu	Leu	Lys	Leu	Ser	Leu
																255
55	Ile	Arg	Gly	Lys	Ser	Leu	Leu	Phe	Val	Asn	Thr	Leu	Glu	Arg	Ser	Tyr
																270
	Arg	Leu	Arg	Leu	Phe	Leu	Glu	Gln	Phe	Ser	Ile	Pro	Thr	Cys	Val	Leu
																285

Asn Gly Glu Leu Pro Leu Arg Ser Arg Cys His Ile Ile Ser Gln Phe
 290 295 300

Asn Gln Gly Phe Tyr Asp Cys Val Ile Ala Thr Asp Ala Glu Val Leu
 5 305 310 315 320

Gly Ala Pro Val Lys Gly Lys Arg Arg Gly Arg Gly Pro Lys Gly Asp
 325 330 335

10 Lys Ala Ser Asp Pro Glu Ala Gly Val Ala Arg Gly Ile Asp Phe His
 340 345 350

His Val Ser Ala Val Leu Asn Phe Asp Leu Pro Pro Thr Pro Glu Ala
 355 360 365

15 Tyr Ile His Arg Ala Gly Arg Thr Ala Arg Ala Asn Asn Pro Gly Ile
 370 375 380

20 Val Leu Thr Phe Val Leu Pro Thr Glu Gln Phe His Leu Gly Lys Ile
 385 390 395 400

Glu Glu Leu Leu Ser Gly Glu Asn Arg Gly Pro Ile Leu Leu Pro Tyr
 405 410 415

25 Gln Phe Arg Met Glu Glu Ile Glu Gly Phe Arg Tyr Arg Cys Arg Asp
 420 425 430

Ala Met Arg Ser Val Thr Lys Gln Ala Ile Arg Glu Ala Arg Leu Lys
 435 440 445

30 Glu Ile Lys Glu Glu Leu Leu His Ser Glu Lys Leu Lys Thr Tyr Phe
 450 455 460

35 Glu Asp Asn Pro Arg Asp Leu Gln Leu Leu Arg His Asp Leu Pro Leu
 465 470 475 480

His Pro Ala Val Val Lys Pro His Leu Gly His Val Pro Asp Tyr Leu
 485 490 495

40 Val Pro Pro Ala Leu Arg Gly Leu Val Arg Pro His Lys Lys Arg Lys
 500 505 510

Lys Leu Ser Ser Ser Cys Arg Lys Ala Lys Arg Ala Lys Ser Gln Asn
 515 520 525

45 Pro Leu Arg Ser Phe Lys His Lys Gly Lys Lys Phe Arg Pro Thr Ala
 530 535 540

Lys Pro Ser Xaa
 545

55 (2) INFORMATION FOR SEQ ID NO: 250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:

Met Thr Thr Val Pro Pro Ser Pro Arg Pro Met Ser Arg Pro Ser Glu
 1 5 10 15

5 Arg Asn Met Arg Arg Pro Arg Gly Pro Ser Pro Leu Pro Ala Ser Pro
 20 25 30

Arg Asn Ser Thr Pro Asp Glu Pro Asp Val His Phe Ser Lys Lys Phe
 35 40 45

10 Leu Asn Val Phe Met Ser Gly Arg Ser Arg Ser Ser Ala Glu Ser
 50 55 60

15 Phe Gly Leu Phe Ser Cys Ile Ile Asn Gly Glu Glu Gln Gln Thr
 65 70 75 80

His Arg Ala Ile Phe Arg Phe Val Pro Arg His Glu Asp Glu Leu Glu
 85 90 95

20 Leu Glu Val Asp Asp Pro Leu Leu Val Glu Leu Gln Ala Glu Asp Tyr
 - 100 105 110

Trp Tyr Glu Ala Tyr Asn Met Arg Thr Gly Ala Arg Gly Val Phe Pro
 115 120 125

25 Ala Tyr Tyr Ala Ile Glu Val Thr Lys Glu Pro Glu His Met Ala Ala
 130 135 140

30 Leu Ala Lys Asn Ser Asp Trp Val Asp Gln Phe Arg Val Lys Phe Leu
 145 150 155 160

Gly Ser Val Gln Val Pro Tyr His Lys Gly Asn Asp Val Leu Cys Ala
 165 170 175

35 Ala Met Gln Lys Ile Ala Thr Thr Arg Arg Leu Thr Val His Phe Asn
 180 185 190

Pro Pro Ser Ser Cys Val Leu Glu Ile Ser Val Arg Gly Val Lys Ile
 195 200 205

40 Gly Val Lys Ala Asp Asp Ser Gln Glu Ala Lys Gly Asn Lys Cys Ser
 210 215 220

His Phe Phe Gln Leu Lys Asn Ile Ser Phe Cys Gly Tyr His Pro Lys
 225 230 235 240

Asn Asn Lys Tyr Phe Gly Phe Ile Thr Lys His Pro Ala Asp His Arg
 245 250 255

50 Phe Ala Cys His Val Phe Val Ser Glu Asp Ser Thr Lys Ala Leu Ala
 260 265 270

Glu Ser Val Gly Arg Ala Phe Gln Gln Phe Tyr Lys Gln Phe Val Glu
 275 280 285

55 Tyr Thr Cys Pro Thr Glu Asp Ile Tyr Leu Glu
 290 295

(2) INFORMATION FOR SEQ ID NO: 251:

(i) SEQUENCE CHARACTERISTICS:

5 (A) LENGTH: 40 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:

10 Leu Leu Tyr Leu Leu Lys Val Xaa Val Ile Phe Val Phe Ser Ser Ser
 1 5 10 15

Lys Gly Val Thr Leu Val Ser Met Asn Leu Thr Ser Phe Phe Val Ser
 20 25 30

15 Ser Val Leu Ala Cys Phe Ser Xaa
 35 40

20 (2) INFORMATION FOR SEQ ID NO: 252:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 594 amino acids
 (B) TYPE: amino acid
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:

30 Met Pro Ala Ser Ser Leu Glu Ser Arg Ser Phe Leu Leu Ala Lys Lys
 1 5 10 15

Ser Gly Glu Asn Val Ala Lys Phe Ile Ile Asn Ser Tyr Pro Lys Tyr
 20 25 30

35 Phe Gln Lys Asp Ile Ala Glu Pro His Ile Pro Cys Leu Met Pro Glu
 35 40 45

Tyr Phe Glu Pro Gln Ile Lys Asp Ile Ser Glu Ala Ala Leu Lys Glu
 50 55 60

40 Arg Ile Glu Leu Arg Lys Val Lys Ala Ser Val Asp Met Phe Asp Gln
 65 70 75 80

Leu Leu Gln Ala Gly Thr Thr Val Ser Leu Glu Thr Thr Asn Ser Leu
 85 90 95

45 Leu Asp Xaa Leu Cys Tyr Tyr Gly Asp Gln Glu Pro Ser Thr Asp Tyr
 100 105 110

50 His Phe Gln Gln Thr Gly Gln Ser Glu Ala Leu Glu Glu Asn Asp
 115 120 125

Glu Thr Ser Arg Arg Lys Ala Gly His Gln Phe Gly Val Thr Trp Arg
 130 135 140

55 Ala Lys Asn Asn Ala Glu Arg Ile Phe Ser Leu Met Pro Glu Lys Asn
 145 150 155 160

60 Glu His Ser Tyr Cys Thr Met Ile Arg Gly Met Val Lys His Arg Ala
 165 170 175